TECHNICAL SPECIFICATIONS
Cinema ProPack 600 System

General

Power Requirement:	AC 120V 60Hz
Contents:	DCR600, DVD600, Programmable Master Remote Control, SCS135S speaker system, basic hookup wiring
Carton Dimensions:	Width: 37 inches (940mm) Height: 18 inches (457mm) Depth: 23 inches (584mm)
Shipping Weight:	95 lbs. (43.2kg)

All features and specifications are subject to change without notice.

OWNER'S GUIDE

MODEL NUMBER: **CINEMA PROPACK™ 600**
Includes: DCR600, DVD600 AND SCS135S

DESIGN GOAL: **Re-create the excitement of the movies using high-performance separate components in one convenient package.**

AUDIO/VIDEO RECEIVER: **DCR600 with Dolby* Digital, DTS®, Logic 7®, VMAx® and MP3 Decoding**

SOURCE UNIT: **DVD600 Five-Disc Carousel DVD/CD/CD-RW/VCD Changer**

LOUDSPEAKERS: **SCS135S Six-Piece Home-Cinema Speaker System with 4 Satellites, 1 Center and 100-Watt Powered Subwoofer**

JBL PRO SOUND COMES HOME™

JBL Consumer Products
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8500 Balboa Boulevard, Northridge, CA 91329
800-336-4JBL (4525) (USA only)
www.jbl.com

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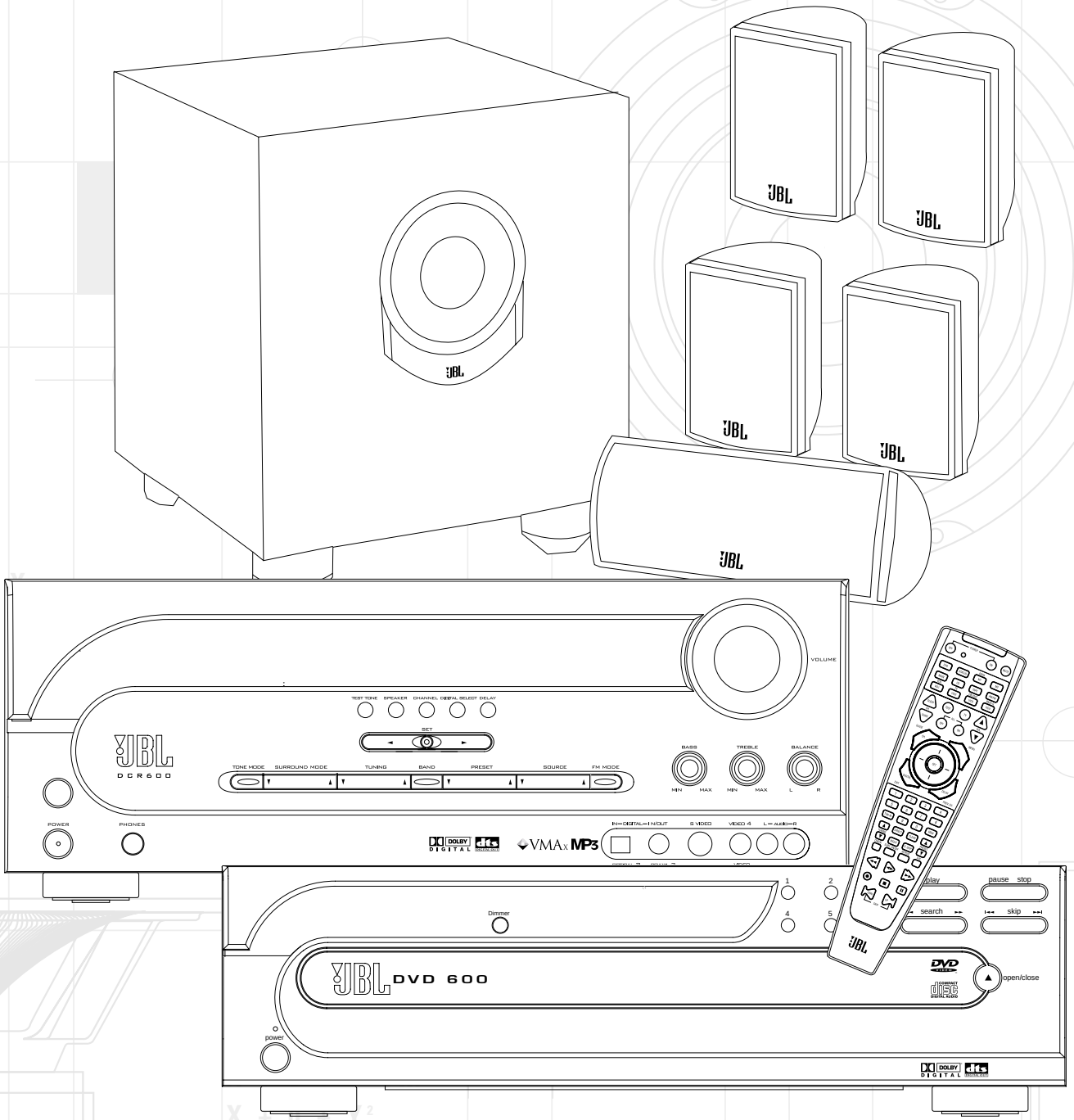

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JBL

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Typographical Conventions
In order to help you use this manual with the remote control, front panel controls and rear panel connections, certain conventions have been used.

EXAMPLE – (bold type) indicates a specific remote control or front panel button, or rear panel connection jack

EXAMPLE – (OCR type) indicates a message that is visible on the front panel information display

1 – (number in a square) indicates a specific front panel control on the DCR600 receiver

❶ – (number in a circle) indicates a rear panel connection on the DCR600 receiver

1D – (number followed by a capital "D" in a rectangle) indicates a specific front panel control on the DVD600 DVD changer

⓭ – (number followed by a capital "D" in a circle) indicates a rear panel connection on the DVD600 DVD changer

1 – (number in an oval) indicates a button or indicator on the remote

A – (letter in a square) indicates an indicator in the front panel display on the DCR600 receiver.

A' – (letter with a prime in a square) indicates an indicator in the front panel display on the DVD600 DVD changer.

⚠1 – (number in a triangle) indicates a specific indicator or control on the rear panel of the SCS135S subwoofer.

read first! Important Safety Precautions!

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To prevent electric shock, do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

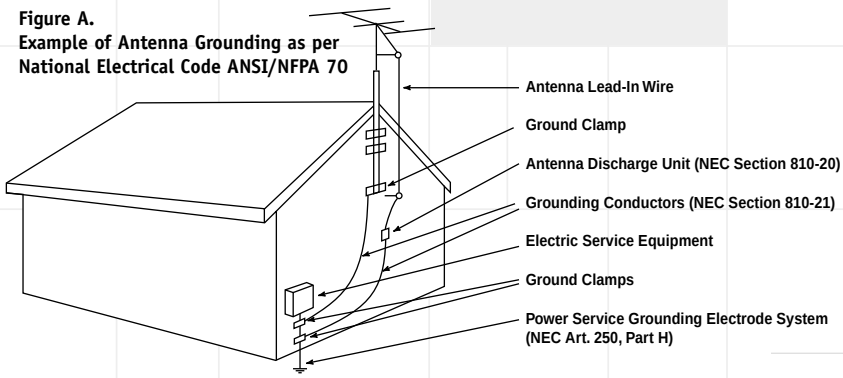
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1. Read Instructions. All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions. The safety and operating instructions should be retained for future reference.
3. Heed Warnings. All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions. All operating and use instructions should be followed.
5. Cleaning. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments. Do not use attachments not recommended by the product manufacturer, as they may cause hazards.
7. Water and Moisture. Do not use this product near water – for example, near a bathtub, wash bowl, kitchen sink or laundry tub; in a wet basement; near a swimming pool; or the like.
8. Accessories. Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. A Product and Cart Combination Should Be Moved with Care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
10. Ventilation. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation, such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
12. Polarization. This product may be equipped with a polarized alternating-current-line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
13. Power-Cord Protection. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
14. Nonuse Periods. The power cord of the product should be unplugged from the outlet when left unused for long periods of time.
15. Outdoor Antenna Grounding. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
16. Lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
17. Power Lines. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.
18. Overloading. Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electric shock.
19. Object and Liquid Entry. Never push objects of any kind into this product through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
20. Servicing. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
21. Damage Requiring Service. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. The power-supply cord or the plug has been damaged; or
b. Objects have fallen onto, or liquid has been spilled into, the product; or
c. The product has been exposed to rain or water; or
d. The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation; or
e. The product has been dropped or damaged in any way; or
f. The product exhibits a distinct change in performance; this indicates a need for service.
22. Replacement Parts. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
23. Safety Check. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
24. Wall or Ceiling Mounting. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
25. Heat. The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

NOTE: This player is designed and manufactured for compatibility with Region Management Information that is encoded on most DVD discs. This player is designed only for playback of discs with Region Code 1, or for discs that do not contain Region Code information. If there is any other Region Code on a disc, that disc will not play on the DVD600.

Figure A.
Example of Antenna Grounding as per National Electrical Code ANSI/NFPA 70


Antenna Lead-In Wire
Ground Clamp
Antenna Discharge Unit (NEC Section 810-20)
Grounding Conductors (NEC Section 810-21)
Electric Service Equipment
Ground Clamps
Power Service Grounding Electrode System (NEC Art. 250, Part H)

Important Safety Information

Verify Line Voltage Before Use

Your JBL Cinema ProPack 600 home-theater system has has been designed for use with 120-volt AC current. Connection to a line voltage other than that for which it is intended can create a safety and fire hazard and may damage the system.

If you have any questions about the voltage requirements for your specific model, or about the line voltage in your area, contact your selling dealer before plugging the components into a wall outlet.

Do Not Use Extension Cords

To avoid safety hazards, use only the power cord attached to your components. We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Damaged power cords should be replaced immediately by an authorized service depot with a cord meeting factory specifications.

Handle the AC Power Cord Gently

When disconnecting the power cord from an AC outlet, always pull the plug – never pull the cord. If you do not intend to use the system for any considerable length of time, disconnect the plugs from the AC outlet.

Do Not Open the Cabinet of Any Components

There are no user-serviceable components inside this product. Opening the cabinets may present a shock hazard, and any modification to the product will void your guarantee. If water or any metal object such as a paper clip, wire or a staple accidentally falls inside, disconnect it from the AC power source immediately, and consult an authorized service station.

CATV or Antenna Grounding

If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV (Cable TV) system installer's attention to article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Installation Location

- To ensure proper operation, particularly of the precision laser transport mechanism and carousel tray in the DVD600, and to avoid the potential for safety hazards, place the components on a firm and level surface. When placing the components on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product.
- Make certain that proper space is provided both above and below each component for ventilation. If this product will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the cabinet. Under some circumstances, a fan may be required.
- Make certain that there is enough room in front of the DVD600 for the disc tray to open fully, and that there is enough space above the unit so that discs may easily be inserted.
- Do not place the components directly on a carpeted surface.
- Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment.
- Avoid moist or humid locations.
- Do not obstruct the ventilation slots on the top of any component, or place objects directly over them.
- Do not place the DVD600 in a location that is subject to direct sunlight or extreme heat or cold, as these conditions may damage the discs used in the player, or the player itself.

Cleaning

When the system gets dirty, wipe it with a clean, soft, dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the components.

Moving the Components

Before moving the components, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet.

Important Information for the User

This equipment has been tested and found to comply with the limits for a Class-B digital device, pursuant to Part 15 of the FCC Rules. The limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio-frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation.

NOTE: Changes or modifications may cause this system to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

Unpacking

The carton and shipping materials used to protect your new home theater system during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move, or should the system ever need repair.

To minimize the size of the carton in storage, you may wish to flatten it. This is done by carefully slitting the tape seams on the bottom and collapsing the carton. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag.

If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable. Please respect the environment and discard those materials at a local recycling center.

GETTING STARTED

Thank You for Choosing JBL

For more than 50 years, JBL has been involved in every aspect of music and film recording and reproduction, from live performances to the recordings you play in your home, car or office.

We're confident that the JBL system you have chosen will provide every note of enjoyment that you expected – and that when you think about purchasing additional audio equipment for your home, car or office, you will once again choose JBL.

Please take a moment to complete the enclosed profile card. It enables us to keep you posted on our latest advancements, and helps us to better understand our customers and build products that meet their needs and expectations.

JBL Consumer Products

What's Included

Your JBL Cinema ProPack 600 Home-Theater System includes everything you need to connect the system to your television and begin enjoying the cinema experience in your own home:

One DCR600 Audio/Video Receiver with Dolby Digital, DTS, Logic 7, VMAx and MP3 Decoding

One DVD600 Five-Disc Carousel DVD Changer

One SCS135S Six-Piece Loudspeaker System with four satellites and wall-mount brackets, one center and a 100-watt powered subwoofer

One universal, programmable, 8-device remote control with three AAA batteries

One FM antenna cable

One AM loop antenna

One 15-foot, single-lead RCA patch cord with brown connectors for connecting the receiver's subwoofer output to the subwoofer

Five two-conductor, color-coded speaker cables (three 40-foot and two 20-foot) for connecting the receiver to the four satellites and center speaker

One 3-foot, single-lead coaxial digital cable with orange connectors for connecting the digital audio output of the DVD changer to the receiver

One 3-foot, single-lead RCA patch cord with yellow connectors for connecting the composite video output of the DVD changer to the receiver

One 5-foot, triple-lead RCA patch cord with red, white and yellow connectors for connecting the composite video and analog audio outputs from the receiver to your television

One single-lead mini phone jack for connecting the remote-out jack on the receiver to the remote-in jack on the DVD changer

The pages that follow describe in detail the various controls and displays on the system components. Feel free to read them now, or review them at a later time. Please go to the section labeled **Where To Place the Speakers** on page 9 to begin setting up your JBL Cinema ProPack 600 system.

Installing and Connecting the Equipment

When making connections to audio source equipment or speakers, it is always a good practice to unplug the unit from the AC wall outlet. This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them.

Refer to the attached Quick Installation diagrams and the Rear Panel Connections diagrams for the DCR600 and DVD600 on pages 16 and 20 when connecting your equipment.

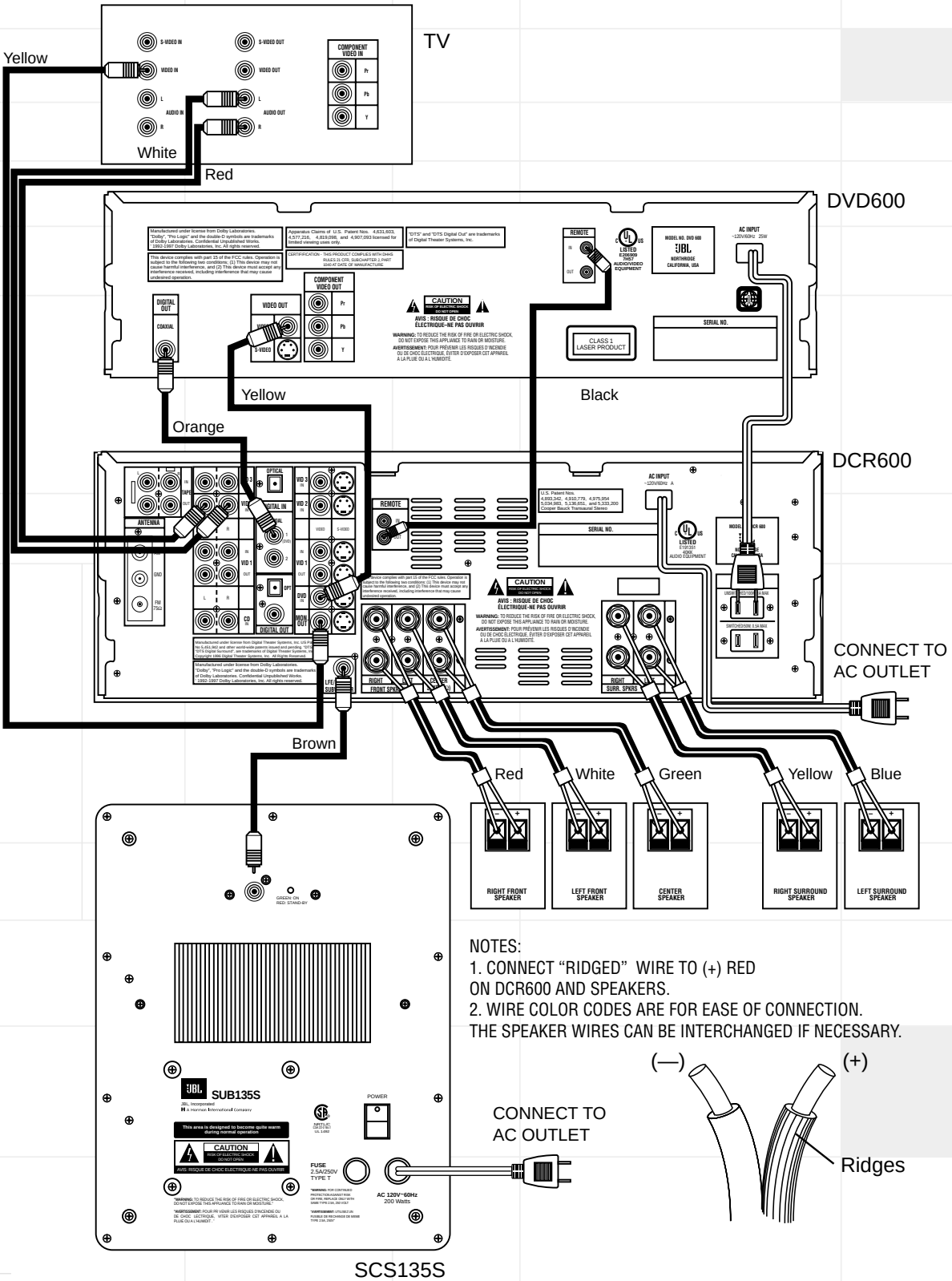
What We Recommend

We recommend a simple connection of your system components to each other, plus a video connection to your television. After you have made these connections, you may wish to read further in this owner's manual for information on connecting other components, such as external tape or digital recorders, CD players, laserdisc players, cable television boxes, satellite dishes, video games or other devices.

Important Note: Any cables run inside walls should be CL3/FT4 rated, or carry any other certification that is required by the NEC or state and local building and electrical codes. To avoid interference, audio and speaker cables should not be parallel to, or run in the same conduits or path with, AC cables. If you have any questions about wiring, consult your dealer or electrical contractor.

Quick Installation Diagrams

BASIC INSTALLATION: Your TV must at a minimum have a composite video input (this connector usually has a yellow-colored core), and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. All wires for this hookup are included.

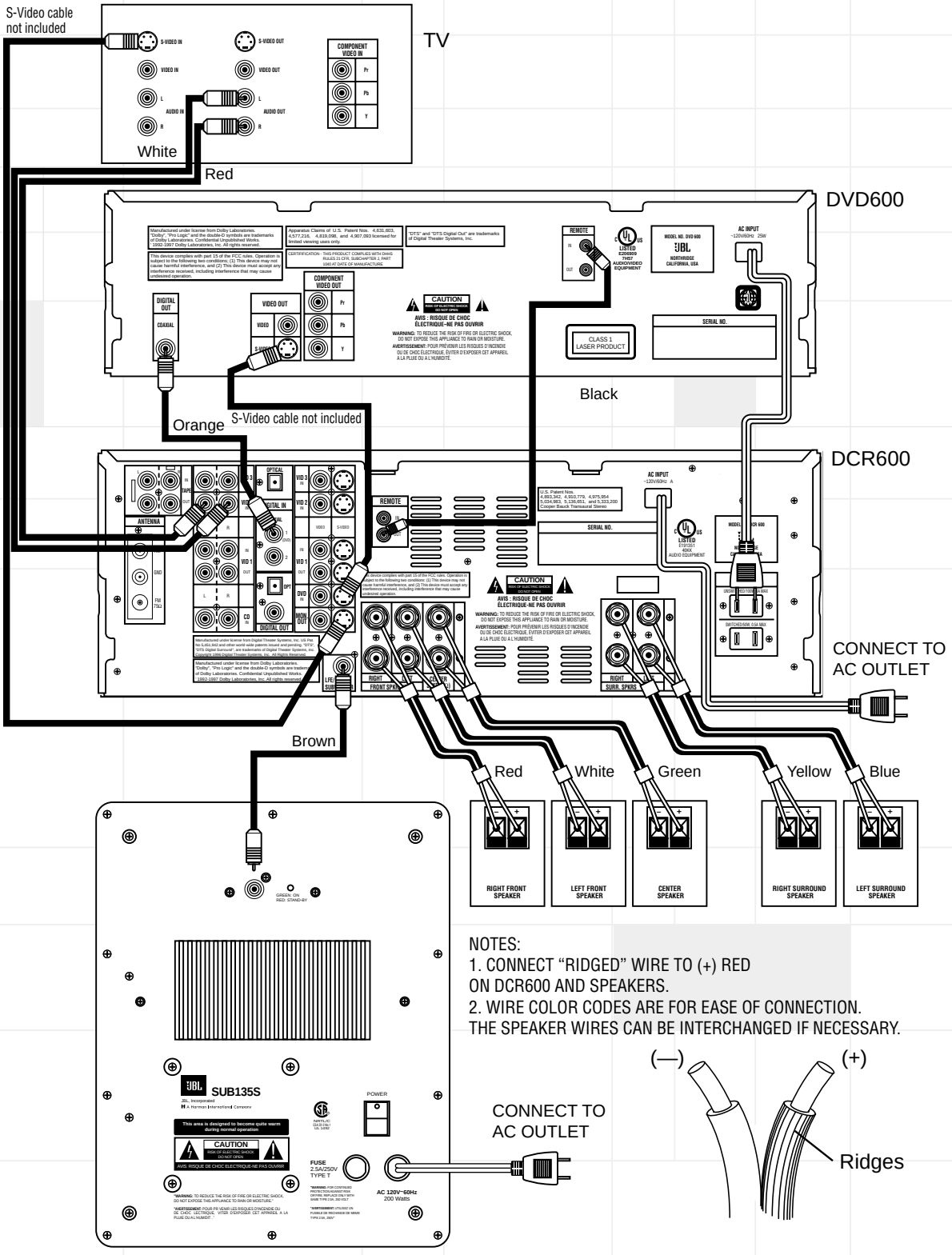


NOTES:
1. CONNECT "RIDGED" WIRE TO (+) RED ON DCR600 AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.

SCS135S

Quick Installation Diagrams (Continued)

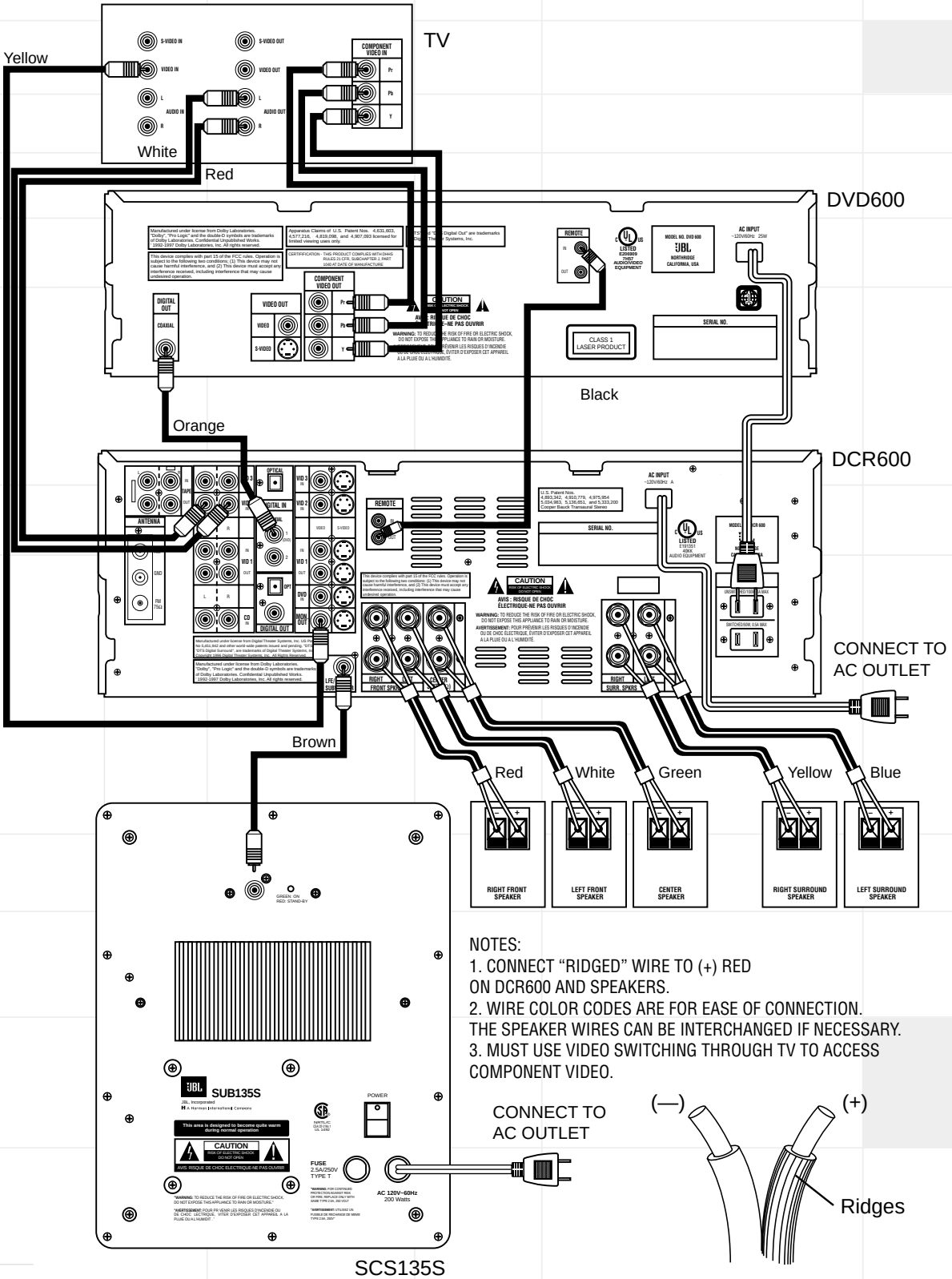
ALTERNATE INSTALLATION FOR BETTER PICTURE QUALITY: Your TV must have an S-Video input, and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. Two pieces of S-Video cable are not included and should be purchased separately.



NOTES:
1. CONNECT "RIDGED" WIRE TO (+) RED ON DCR600 AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.

Quick Installation Diagrams (Continued)

ALTERNATE INSTALLATION FOR BEST PICTURE QUALITY: Your TV must have Y/Pr/Pb component video inputs (three separate RCA connectors with red-, blue- and green-colored cores), and Left (usually has a white-colored core) and Right (red-colored core) Stereo audio preamp-level RCA outputs. The composite video cable is not included and should be purchased separately. This setup requires that the TV's own video switching is utilized to access DVD picture. All other video switching is still done through the DCR600.



NOTES:
1. CONNECT "RIDGED" WIRE TO (+) RED ON DCR600 AND SPEAKERS.
2. WIRE COLOR CODES ARE FOR EASE OF CONNECTION. THE SPEAKER WIRES CAN BE INTERCHANGED IF NECESSARY.
3. MUST USE VIDEO SWITCHING THROUGH TV TO ACCESS COMPONENT VIDEO.

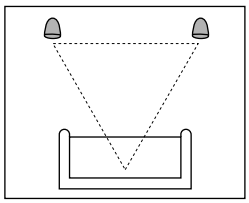
Where to Place the Speakers

The front speakers should be placed the same distance from each other as they are from the listening position. They should be placed at about the same height from the floor as the listeners' ears will be, or they may be angled toward the listeners.

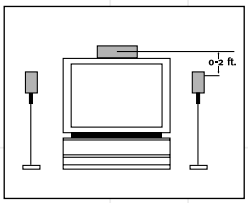
The center-channel speaker should be placed slightly behind the front left and right speakers, and no more than two feet above or below the tweeters of the left and right speakers. It is often convenient to set the center speaker on top of the television set, as shown in the drawing. Use the supplied support leg to aim it toward the listener by screwing the leg in to angle the speaker up, or unscrewing the leg slightly to angle the speaker down.

The two surround speakers should be placed slightly behind the listening position and, ideally, should face each other and be at a level higher than the listeners' ears. If that is not possible, they may be placed on a wall behind the listening position, facing forward. The surround speakers should not call attention to themselves. Experiment with their placement until you hear a diffuse, ambient sound accompanying the main-program material heard in the front speakers.

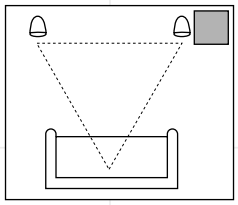
Front Speakers



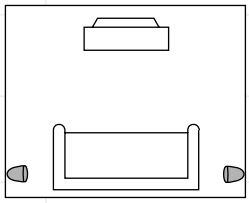
Center-Channel Speaker

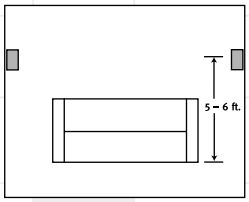


Subwoofer



Surround Speakers

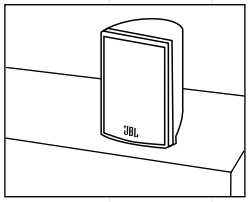




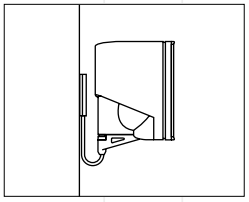
The low-frequency material reproduced by the subwoofer is mostly omnidirectional, and this speaker may be placed in a convenient location in the room. However, the best reproduction of bass will be heard when the subwoofer is placed in a corner along the same wall as the front speakers. Experiment with subwoofer placement by temporarily placing the subwoofer in the listening position and moving around the room until the bass reproduction is best. Place the subwoofer in that location.

Mounting Options

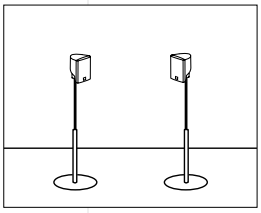
Satellites and Surrounds



On shelves.

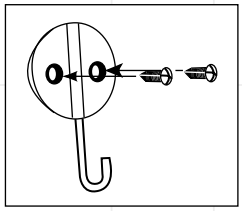


On the wall. Wall brackets are included.

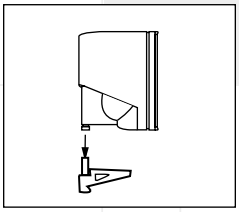


On optional stands (FS300).

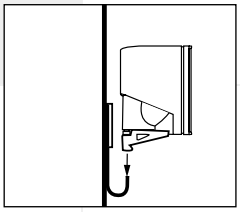
Wall-Mounting



Attach plate to wall. The brackets should be placed, if possible, so that the screws will fasten into a wooden wall stud. If that is not possible, use properly selected wall anchors.



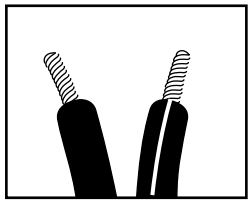
Slide speaker onto support.



Place speaker and support on wall plate.

The customer is responsible for proper selection and use of mounting hardware, available through hardware stores, to properly and safely wall-mount the speakers.

Connecting the Speakers



Separate and strip the ends of the speaker wire as shown. Speakers and electronics terminals have corresponding (+) and (–) terminals. Most manufacturers of speakers and electronics, including JBL, use red to denote the (+) terminal and black for the (–) terminal.

The (+) lead of the speaker wire is noted with a stripe. It is important to connect both speakers identically: (+) on the speaker to (+) on the receiver and (–) on the speaker to (–) on the receiver. Wiring "out of phase" results in thin sound, weak bass and a poor stereo image.

With the advent of multichannel surround-sound systems, connecting all of the speakers in your system with the correct polarity remains equally important in order to preserve the proper ambience and directionality of the program material.

The wires for the three front speakers should all be of the same length even if the speakers will be placed at varying distances from the DCR600. The same applies to the two rear speakers. To make sure that you use the correct wires for each speaker, we have color-coded them, as shown in the diagram:

Left Front: White Wire

Center: Green Wire

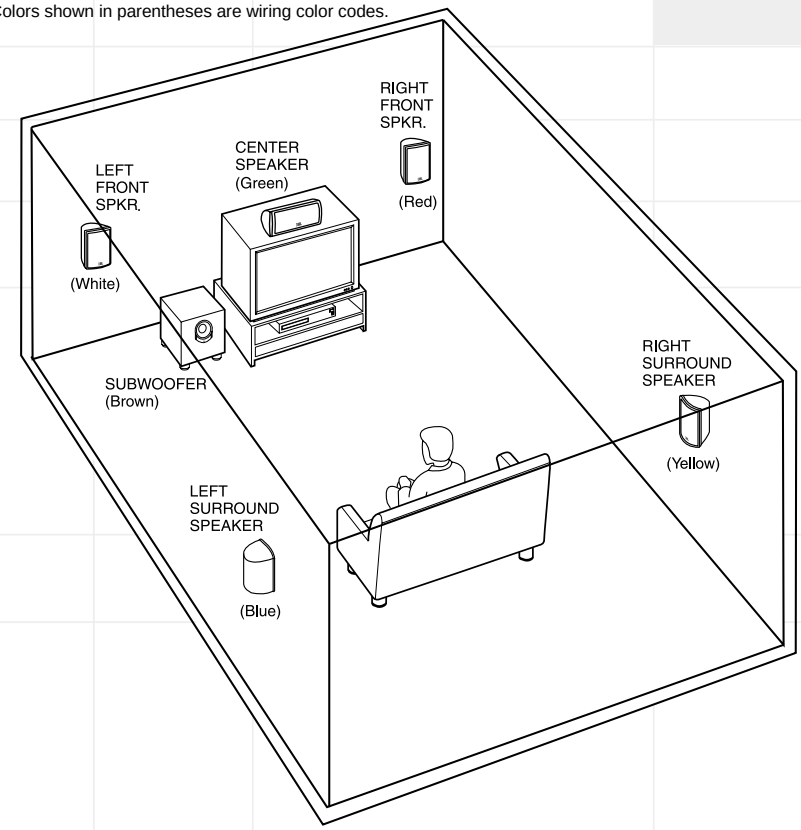
Right Front: Red Wire

Right Rear: Yellow Wire

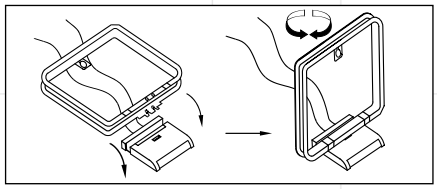
Left Rear: Blue Wire

Finally, connect one end of the single-lead RCA cable with brown connectors to the LFE/Subwoofer output ⓫ on the back of the DCR600 receiver, and the other end to the LFE Input ⓵ on the back of the SCS135S subwoofer.

Colors shown in parentheses are wiring color codes.



Making the Audio Connections



1. Assemble the supplied AM Loop Antenna as shown above. Connect it to the **AM** and **GND** terminals ❹ on the back of the DCR600.

2. Connect the supplied 75-ohm **FM** antenna to the FM terminal ❻ on the back of the DCR600. Note that if you use an optional external FM antenna with 300-ohm twin-lead cable, you must use a 300-ohm-to-75-ohm adaptor (not supplied) to make the connection.

3. Connect one end of the supplied single-lead coaxial digital cable with orange connectors to the COAX1 (upper) digital input ㉖ on the receiver, and connect the other end to the coaxial digital output ⓭ on the DVD changer.

4. In order to obtain the best possible sound reproduction when watching your television, connect the left and right analog audio outputs of your TV to the **Video 2 Audio** inputs ㉗ on the DCR600 using the red (right) and white (left) leads of the supplied triple-lead RCA cable.

Making the Video Connections

IMPORTANT NOTE: The DCR600 and DVD600 offer both S-Video and composite video inputs and outputs. However, you must choose one type of connection or the other for all connections in your system. This will depend on the type of connections on your television. If both types of connections are available, we recommend that you purchase S-Video cables and make those connections for superior picture quality. The composite video connections will also provide excellent results. However, the DCR600 will not convert from one type of signal to the other.

1. Connect one end of the single-lead RCA cable with yellow connectors to the composite video output ⓴ on the DVD600 and the other end to the DVD composite video input ❾ on the receiver.

OR
Connect one end of an S-Video cable (not supplied) to the S-Video output ㉙ on the DVD600 to the DVD S-Video input ❾ on the receiver.

2. Connect one of the yellow ends of the triple-lead RCA cable with red, white and yellow connectors to the Video Monitor composite video output ❿ on the receiver, and the other end to the composite video input jack on your television. This jack is often color-coded yellow; however, if you have any questions about which jack to use, consult your television's owner's manual or your dealer for assistance.

OR
Connect one end of a second S-Video cable (not supplied) to the Video Monitor S-Video output ❿ on the receiver, and the other end to the S-Video input jack on your television.

3. If your television is equipped with component video (Y/Pr/Pb) inputs, in addition to the above connections, you may use a triple-lead component video cable (not supplied) to connect the component video outputs ㊾ on the DVD600 to the inputs on your television.

4. Connect one end of the black 1/8" mini phone cord to the **Remote IR Output** ⓲ on the DCR600, and the other end to the **Remote IR Input** ㊿ on the DVD600.

If you will not be connecting additional equipment to your system just yet, you may plug in the receiver, DVD changer and subwoofer. The DVD600 may be plugged into the **Unswitched Accessory Outlet** ⓰ on the rear of the receiver. The receiver has a master power switch **1** which must be pressed in first, and a power switch **2**, which should be pressed second. The last source selection will appear in the receiver's information display.

The DCR600 is set at the factory to a default configuration for use with small satellite speakers and a powered subwoofer such as the JBL SCS135S. If other speakers are used, then the speaker configurations may need to be changed.

Although the DCR600 is set to the correct speaker configuration settings for the speakers supplied with this system at the factory, you will need to adjust the output levels of the speakers to customize the system to your speaker placement and room acoustics.

Completing Setup

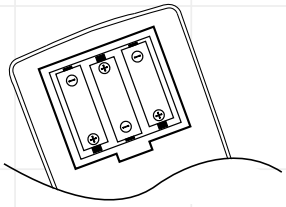
Connect all components as per the Quick Setup Guide, or as per pages 6 thru 8 of this manual.

Remove the protective plastic films from the front panel displays of the DCR600 and DVD600.

1. Plug the **Power Cord** ⓱ into an unswitched AC outlet.

2. Press the **Main Power Switch** **1** in so that it latches in and is flush with the front panel. Note that the **Power Indicator** **3** will turn amber, indicating that the unit is in the Standby mode.

3. Install the three supplied AAA batteries in the remote as shown. Be certain to follow the (+) and (–) polarity indicators that are on the bottom of the battery compartment.



4. Turn the DCR600 on, either by pressing the **System Power Control** **2** on the front panel, or by pressing an **Input Selector** ❾❿⓫⓬⓭⓮⓯ on the remote.

The **Power Indicator** **3** will turn green to confirm that the unit is on, and the **Information Display** **24** will also light up.

Setting the output levels correctly is the key to preserving the enveloping surround sensation that the artists of your favorite movies intended for you to experience.

1. Make sure the **Balance Control** **18** is in the "12 o'clock" position, and put the DCR600 in Dolby Pro Logic* mode by pressing the **Surround Mode Selector** ⓴ **7** repeatedly until PRO LOGIC appears in the **Main Information Display** **W**, and the PRO LOGIC indicator **F** lights.

2. Press the **Test Button** ⓱ to start a test tone circulating from speaker to speaker, starting with the front left speaker (indicated by FL in the display), and going around clockwise. Let it circulate once to check that your speakers have been connected correctly.

3. The goal is to obtain the same output level from each speaker. Use the front left speaker as your reference, adjusting the **Volume Control** **20** ⓳㉓ until the sound coming from the front left speaker is at a comfortable level.

4. If any other speaker sounds too loud or soft in comparison to the front left speaker, adjust its output level by pressing the **▲/▼ Buttons** ㉕㉛ on the remote, or the **Selector Buttons** **5** on the receiver's front panel. This will cause the test tone to pause at that speaker to allow you to make the adjustment. When you are satisfied with the level of that speaker, press the **Set Button** **21** ㉘ to store the setting. The tone will continue to circulate after about 15 seconds.

5. If you are using a sound pressure level (SPL) meter for precise level adjustment, start by setting the volume so that the meter reads 75dB, C-Weighting, Slow.

6. When you are finished adjusting the levels for all speakers (except the subwoofer, which is not adjustable using this procedure), press the **Test Button** ⓱ to end the test tone.

For most installations, your DCR600 receiver should now be ready for use. If you would like further information on making other, advanced settings, please see the section titled "Configuring the DCR600 Receiver".

Quick Setup Guide to Using the JBL Cinema ProPack 600

The DVD600 can play discs in the following formats:

- Both 5-inch (12cm) and 3-inch (8cm) discs
- CD audio discs
- DTS audio discs
- CD-RW audio discs
- DVD movie discs
- VCD video compact discs

However, it cannot play:

- DVD discs with a Region Code other than "1" or "All"
- DVD discs using PAL format video
- DVD-ROM data discs
- DVD-RAM discs
- CD-R discs
- CD-I discs
- CD-G discs
- SVCD discs
- Photo CD discs
- MP3 audio discs

Press the DVD600's **Power Switch** 1D so that it latches and the **Status Indicator** 2D turns amber, indicating that the unit is in the Standby mode. Turn the unit on by pressing either the **Power On Button** 2 on the remote or the **Open/Close Button** 6D or **Play Button** 10D on the front panel. The **Status Indicator** 2D will turn green.

Open the DVD600's drawer, and insert up to 5 discs in the tray locations, using the **Disc Skip Button** 51 4D to rotate the carousel to access all locations. Make sure each disc is loaded with the label side up, and that it is seated correctly in its location.

When you close the drawer, the DVD600 will automatically start playing the first disc it recognizes, whether it is a CD or DVD disc. However, whichever type of disc is playing, make sure that you have selected DVD as the input source on the DCR600 by pressing 4 on the remote, or 11 on the front panel of the receiver until DVD is indicated.

For most discs, the DVD600 and DCR600 will automatically select the correct surround mode. To make sure that audio in the DTS audio format is correctly processed, you must choose that format as the default in the DVD600's setup menu. Simply stop play of the disc, and enter the setup menu by pressing 26 on the remote. Use the **▲/▼ Buttons** 25 31 to scroll down to **Digital Audio Output.** Press the **Set Button** 28 to select this option, and a screen will pop up, allowing you to choose from PCM, Dolby Digital or DTS outputs. Use the **▲/▼ Buttons** 25 31 to highlight DTS, then press the **Set Button** 28 to select this choice. You do not need to reset the audio output for other formats. The DCR600 and DVD600 will automatically process PCM, Dolby Digital and DTS signals correctly. Press the **Menu Button** 26 to exit the menu screen. If you press the **Menu Button** 26 while the disc is playing, you can access the disc's menu to choose the DTS format there as well.

You may wish to experiment with surround modes other than Dolby Digital and DTS using the DCR600's functions. Press the **Surround Mode Selector** 20 7 to scroll through such choices as Dolby Pro Logic, Dolby 3 Stereo, 5-Channel Stereo, Hall, Theater, VMAx, Logic 7 or Surround Off (Stereo). See page 52 for descriptions of these modes.

Press the **Stop Button** 8D 61 once to enter Resume mode, in which play will resume from the point where it was stopped. Pressing the **Stop Button** 8D 61 twice will cause play to resume from the beginning of the disc, or the disc's main menu.

You may wish to listen to the tracks of a CD, or view the chapters of a DVD, in a different order than they appear on the disc.

The Random function will play all of the tracks on one CD, or all of the chapters on one DVD, in a random order selected by the DVD600. The DVD600 does not randomly play selections from all five discs inserted in its tray, since this might result in the odd experience of alternating among audio tracks and disjointed video selections. Simply press the **Random Button** 50 once to start random play, and press it again to return to standard play, using the disc's main menu.

The DVD600 offers several variations of Repeat Play: **Repeat All** discs in the unit once; **Repeat 1 Disc** until play is manually stopped; **Repeat Title** on a DVD disc until play is manually stopped; **Repeat Track/Chapter** on either a CD or DVD disc until play is manually stopped; and **Repeat A–B,** which repeats a programmed selection until play is manually stopped.

Press the **Repeat Button** 55 to scroll through the repeat choices. Repeat play can be stopped by pressing the **Repeat Button** 55 until Repeat Off is selected, or by pressing the **Stop Button** 61 8D twice.

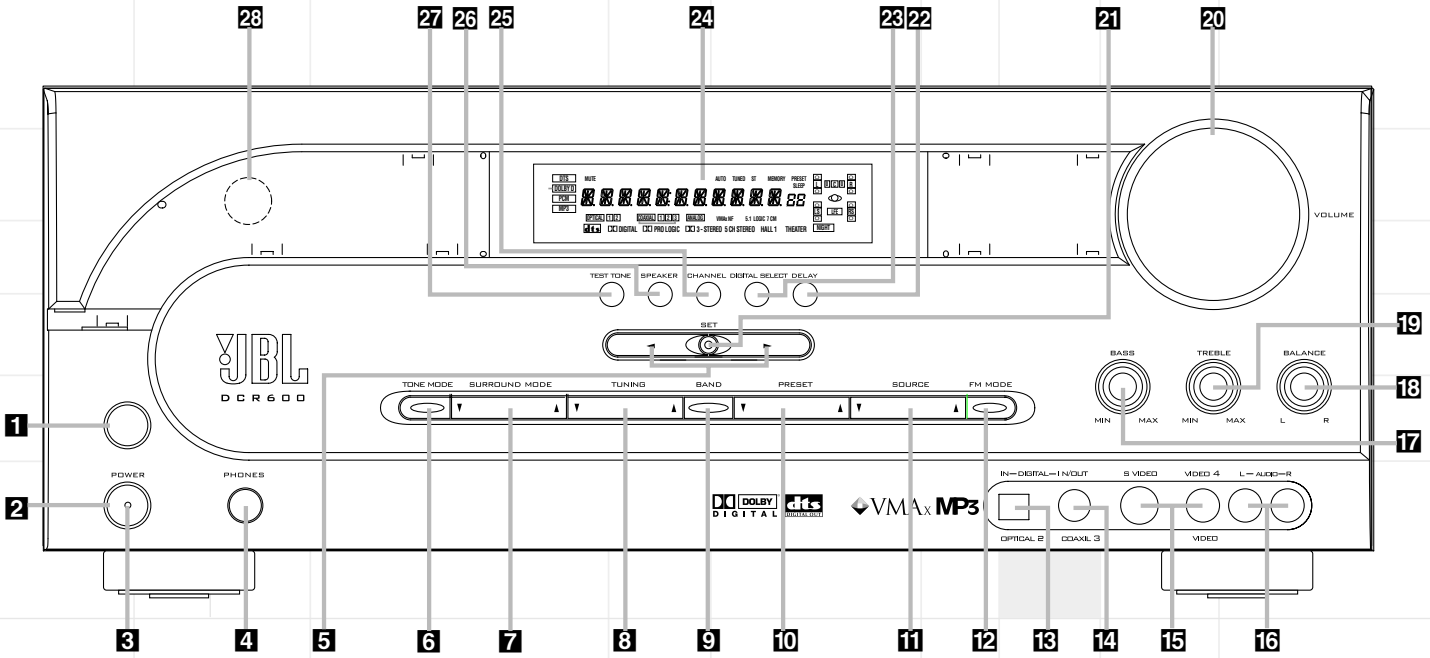
Program the Repeat A–B function while a disc is playing. Press the **Repeat A–B Button** 56 at the start of the passage to be repeated, and press it again at the end of the passage. The passage will continue to play until the **Stop Button** 61 8D is pressed.

You can also program play lists of selected tracks or chapters.

1. Select the DVD600 by pressing the **DVD Button** 4, and press the **Program Button** 46 to bring up the Program Edit Screen.
2. Use the ▲/▼ 25 31 keys to select a disc number, and press either **Set** 28 or ▶ 29 to enter the selection and move to the next option.
3. Use the ▲/▼ 25 31 keys to select a track (for a CD) or title (for a DVD), and press either **Set** 28 or ▶ 29 to enter the selection and move to the next option. If "99" appears, it means the DVD600 has not read the disc yet to determine whether it is a CD or DVD.
4. For DVDs only, use the same procedure to enter a chapter.
5. The next choice is to add the selection to the play list by pressing the **Set Button** 28.
6. Repeat Steps 2–5 to enter up to 25 selections into the play list.
7. Play the list by using the arrow keys to highlight the Play selection, and the **Set Button** 28 to begin play. Press the **Stop Button** 61 twice to stop playback of the list. To cancel the list, press the **Clear Button** 47.
8. To delete a selection, highlight the item to be deleted, press the **Set Button** 28, and then use the ▲/▼ 25 31 keys to choose the **Delete Button**. Press the **Set Button** 28 again to delete it. Alternatively, highlight the item and press the **Clear Button** 47 to delete it.
9. Insert an entry by highlighting the item in the play list at the point of insertion, pressing the **Set Button** 28, and using the ▼ 31 key once to select the Insert option. Follow Steps 2 through 5 above to enter the new selection. You may also edit an entry by pressing the **Check Button** 53 twice to step through the items in a play list. Use the ◀/▶ 27 29 keys to choose a disc, track or chapter to be edited, and the ▲/▼ 25 31 keys to make a change.

This completes the quick setup and operation of your JBL Cinema ProPack 600 system. Additional information is provided in the following sections for those users with additional components, or who wish to make other, more advanced adjustments to their system.

DCR600 Front Panel Controls



1 Main Power Switch: Press this button to apply power to the DCR600. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the amber **Power Indicator 3** surrounding the **System Power Control 2**. This button MUST be pressed in to operate the unit. To turn the unit off and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch.

NOTE:
This switch is normally left in the "ON" position.

2 System Power Control: When the **Main Power Switch 1** is "ON," press this button to turn on the DCR600; press it again to turn the unit off. Note that the **Power Indicator 3** in the center of the switch will turn green when the unit is on.

3 Power Indicator: This LED will be illuminated in amber when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn green.

4 Headphone Jack: This jack may be used to listen to the DCR600's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phone plug. Note that the main room speakers will automatically be turned off when the headphone jack is in use.

5 Selector Buttons: When you are establishing the DCR600's configuration settings, use these buttons to select from the choices available, as shown in the **Main Information Display 24**.

6 Tone Mode: Pressing this button enables or disables the Bass and Treble tone controls. When the button is pressed so that the words TONE IN appear in the **Main Information Display 24**, the settings of the **Bass 17** and **Treble 19** controls may be used to adjust the output signals. When the button is pressed so that the words TONE OUT appear in the **Main Information Display 24**, the output signal will be "flat," without any bass or treble alteration, no matter how the actual **Bass** and **Treble 17 19** controls are adjusted.

7 Surround Mode Selector: Press this button to change the surround mode by scrolling through the list of available modes. Note that depending on the type of input, some modes are not always available. (See page 52 for more information about surround modes.)

8 Tuning Selector: Press the left side of the button to tune lower-frequency stations and the right side of the button to tune higher-frequency stations. When a station with a strong signal is reached, the **TUNED** indicator **U** will be illuminated in the **Main Information Display 24**.

To tune manually, tap the button lightly and note that the tuner will step up one frequency increment per button press. When the button is held for a few seconds you will note that the unit will quickly search the frequency band. Release it once the fast tuning starts; the tuner will automatically scan for the next station with an acceptable signal and then stop.

9 Tuner Band Selector: Pressing this button will automatically switch the DCR600 to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands.

10 Preset Stations Selector: Press this button to scroll up or down through the list or stations that have been entered into the preset memory.

11 Input Source Selector: Press this button to change the input by scrolling up or down through the list of input sources. When an audio source is selected, the last video input used remains routed to the **Video 1 Output** 20 and **Video Monitor Output** 10. This permits you to simultaneously view and listen to different sources.

12 FM Mode Selector: Press this button to select Auto or Manual tuning. When the button is pressed so that the **AUTO** indicator V lights, the tuner will search for the next station with an acceptable signal when the **Tuning Selector** 8 45 49 is pressed. When the button is pressed so that the **AUTO** indicator V is not lit, each press of the **Tuning Selector** 8 45 49 will increase the frequency.

NOTE: When the FM reception of a station is weak, audio quality will be increased by switching to Mono mode by pressing the **FM (Tuning) Mode Button** 12 41 until the **STEREO Indicator** T goes out.

13 Digital Optical 2 Input: Connect the optical digital output of an audio or video product to this jack. When the Input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance.

14 Digital Coax 3 Jack: This jack is used for connection to the output of portable audio devices, video game consoles or other products that have a coax digital jack.

15 Video 4 Video Input Jacks: These jacks may be used for temporary connection to the composite or S-Video output of video games, camcorders or other portable video products.

16 Video 4 Audio Input Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players.

17 Bass Control: Turn this control to modify the low-frequency output of the left/right channels by as much as ±10dB. Set this control to a suitable position for your taste or room acoustics.

18 Balance Control: Turn this control to change the relative volume for the front left/right channels.

NOTE:
For proper operation of the surround modes this control should be at the midpoint, or "12 o'clock," position.

19 Treble Control: Turn this control to modify the high-frequency output of the left/right channels by as much as ±10dB. Set this control to a suitable position for your taste or room acoustics.

20 Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume. If the DCR600 is muted, adjusting the volume control will automatically release the unit from the silenced condition.

21 Set Button: When making choices during the setup and configuration process, press this button to enter the desired setting as shown in the **Main Information Display** 24 into the DCR600's memory. The Set button may also be used to change the display brightness, to avoid interfering with video presentations:

Press and hold the **Set Button** 21 on the front panel for three seconds until the message in the **Main Information Display** 24 reads VFD FULL. Within five seconds, press the front panel **Selector Buttons** 5 until the desired brightness display level is shown. Press the **Set Button** 21 again to enter the setting.

When FULL appears in the **Main Information Display** 24, the display is at its normal brightness. When HALF appears, the display is at half the normal brightness level. When OFF appears, all of the indicators in the **Main Information Display** 24 will go dark. Note, however, that the **Power Indicator** 3 will always remain lit to remind you that the unit is turned on.

Once the desired brightness level is selected, it will remain in effect until it is changed again or until the unit is turned off.

22 Delay: Press this button to begin the sequence of steps required to enter delay time settings.

23 Digital Input Selector: When playing a source that has a digital output, press this button to select between the **Optical** 13 24 and **Coaxial** 14 25 **Digital** inputs.

24 Main Information Display: This display delivers messages and status indications to help you operate the receiver.

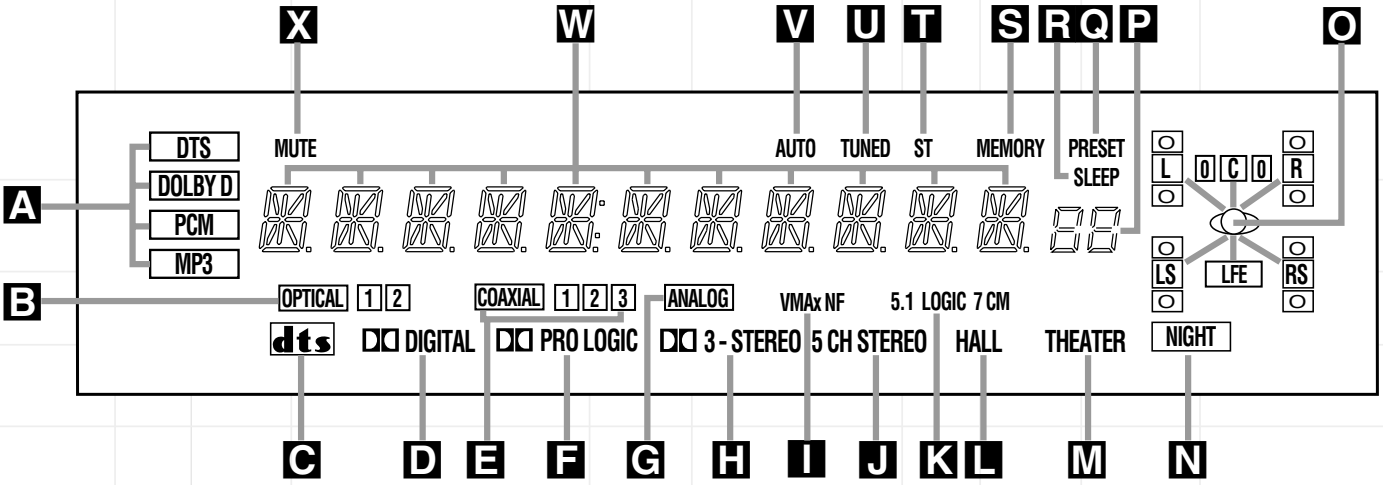
25 Channel Select Button: Press this button to begin the process of trimming the channel output levels using an external audio source.

26 Speaker Select Button: Press this button to begin the process of selecting the speaker positions that are used in your listening room.

27 Test Tone Selector: Press this button to begin the process of adjusting the channel output levels using the internal test tone as a reference.

28 Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control. Aim the remote at this area and do not block or cover it unless an external remote sensor is installed.

DCR600 Front Panel Information Display



A Bitstream Indicators: When the input is a digital source, these indicators display the specific type of data signal.

B Optical Source: Indicates an Optical Digital Input has been selected.

C DTS: Indicates a DTS-encoded source.

D Dolby Digital: Indicates a Dolby Digital source.

E Coaxial Source: Indicates a Coaxial Digital Input.

F Dolby Pro Logic: Indicates the Dolby Pro Logic mode has been selected.

G Analog Input: Indicates an analog input source.

NOTE: Analog audio input is not available when the DVD input is in use.

H Dolby 3 Stereo Indicator: This indicator lights when the Dolby 3 Stereo Mode has been selected.

I VMAx Mode: Lights when the VMAx mode is in use. VMAx F appears when the Far Field VMAx mode is selected; VMAx N appears when the Near Field VMAx mode is selected.

J 5-Channel Stereo: Lights when the 5-Channel Stereo mode has been selected.

K Logic 7 Mode: Indicates that the Logic 7 mode is in use. LOGIC 7C appears for the Cinema version of Logic 7; LOGIC 7M appears for the Music version of Logic 7.

L Hall Mode: Lights when the Hall mode has been selected.

M Theater Mode: Indicates that the Theater mode has been selected.

N Night Mode: Indicates that the DCR600 is in the Night mode, which preserves the dynamic range of digital program material at low volume levels.

O Speaker/Channel Input: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and all three boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for one of those positions. The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input. When the letters flash, the digital input has been interrupted.

P Preset Number/Sleep Timer: In Tuner mode these numbers indicate the preset memory location in use. In Sleep function mode it shows the number of minutes remaining before the unit goes into the Standby mode.

Q Preset Indicator: This indicator lights when the tuner is in use to show that the **Preset Number/Sleep Timer P** is showing the station's preset memory number.

R Sleep Indicator: This indicator lights when the Sleep function is in use.

S Memory: Flashes when entering presets and other information into the tuner's memory.

T Stereo: Lights when an FM station is being tuned in stereo.

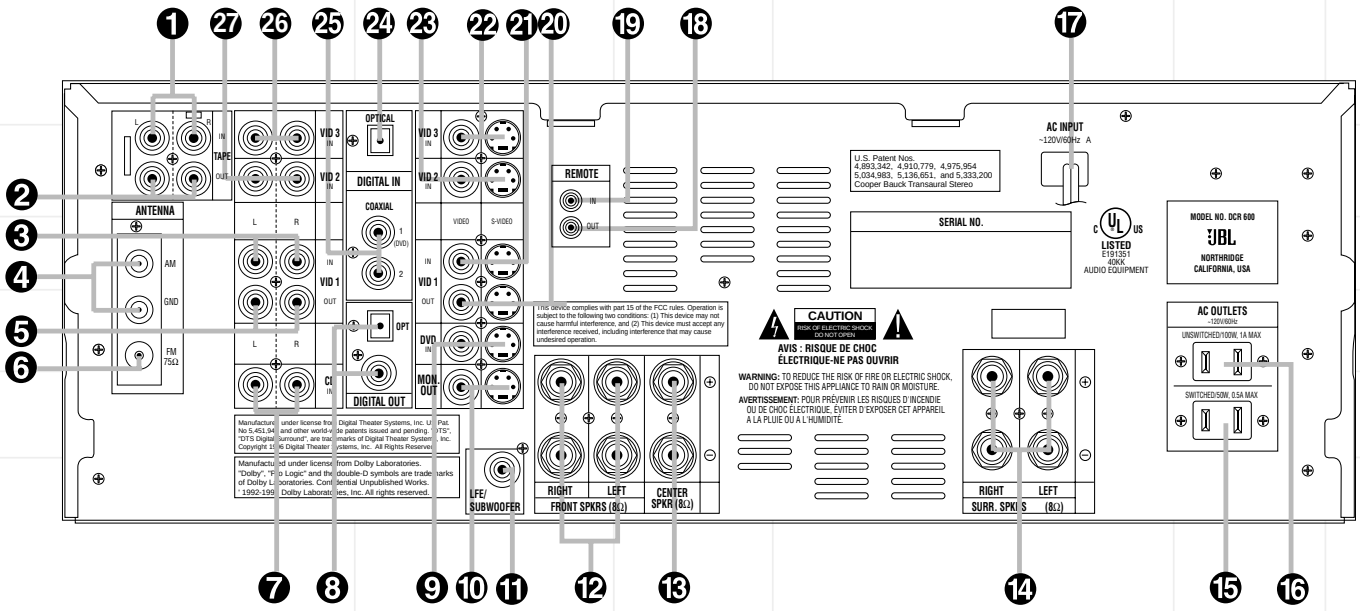
U Tuned: Lights when a station is being received with sufficient signal strength to provide acceptable listening quality.

V Auto: Lights when the tuner is in Auto mode.

W Main Information Display: Shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of operation.

X Mute: Lights to indicate that the unit has been put in Mute by pressing the **Mute Button 3**. Press the Mute button again to return to the previously selected output level.

DCR600 Rear Panel Connections



IMPORTANT NOTES:

A. The AC plug connections should always be the last connections made when installing an A/V system. When making subsequent connections to audio source equipment or speakers, it is always a good practice to unplug the unit from the AC wall outlet. This prevents the possibility of sending audio or transient signals to the speakers that may damage them.

B. Connect devices as per the Quick Setup Guide or per pages 6 through 8 of this manual.

C. The DCR600 offers both composite and S-Video inputs and outputs. However, **either** S **or** composite input/output connections should be used throughout the system in order for it to function properly. Do not use S-Video and composite video connections interchangeably.

D. The digital outputs are active only when a digital signal is present, and they do not convert an analog input to a digital signal, or change the format of the digital signal. In addition, any digital recorder used must be compatible with the output signal. For example, the PCM digital input from a CD player may be recorded on a CD-R or MiniDisc, but Dolby Digital or DTS signals may not.

❶ **Tape Inputs:** Connect to **PLAY/OUT** jacks of an audio recorder.

❷ **Tape Outputs:** Connect to **RECORD/INPUT** jacks of an audio recorder.

❸ **Video 1 Audio Inputs:** Connect jacks to the **PLAY/OUT** audio jacks on a VCR or other video source.

❹ **AM Antenna:** Connect to the AM loop antenna supplied. If an external AM antenna is used, make connections to the **AM** and **GND** terminals in accordance with the instructions supplied with the antenna.

❺ **Video 1 Audio Outputs:** Connect to the **RECORD/INPUT** audio jacks on a VCR or other video recorder.

❻ **FM Antenna:** Connect to the supplied indoor, or an optional external, FM antenna.

❼ **CD Inputs:** Connect to output of a CD player.

NOTE: When the CD player has both fixed and variable audio outputs, it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted.

❽ **Digital Audio Outputs:** Connect to the same type digital input connector on a CD-R or MiniDisc recorder.

❾ **DVD Video Inputs:** Connect to composite or S-Video output jacks on a DVD.

❿ **Video Monitor Outputs:** Connect to composite or S-Video input of a TV monitor or video projector.

⓫ **LFE/Subwoofer Output:** Connect to the LFE or line-level input of a powered subwoofer.

⓬ **Front Speaker Outputs:** Connect to matching + and – terminals on front left/right speakers.

⓭ **Center Speaker Outputs:** Connect to matching + and – terminals on center speaker.

⓮ **Surround Speaker Outputs:** Connect to matching + and – terminals on left and right surround speakers.

NOTE: When making speaker connections always make certain to maintain correct polarity by connecting the red (+) terminals on the DCR600 to the red (+) terminals on the speakers and the black (–) terminals on the DCR600 to the black (–) terminals on the speakers.

⓯ **Switched AC Accessory Outlet:** Used to power any device you wish to have turned on when the receiver is turned on with the **System Power Control** 2 switch.

NOTE: Many audio and video products go into a Standby mode when they are used with switched outlets, and cannot be fully turned on using the outlet alone without a remote control command. The JBL Cinema ProPack 600 remote offers ALL OFF and ALL ON commands. If a device is programmed into the remote, do not use the switched outlet to power the device.

⓰ **Unswitched AC Accessory Outlet:** Used to power any AC device. The power will remain on at this outlet regardless of whether the receiver is on or off.

NOTE: The total power consumption of all devices connected to the accessory outlets should not exceed 100 watts.

⓱ **AC Power Cord:** Connect the AC plug to an unswitched AC wall output.

⓲ **Remote IR Output:** Permits the IR sensor in the receiver to serve other remote-controlled devices. Connect this jack to the "IR IN" jack on the DVD600 or other compatible equipment.

⓳ **Remote IR Input:** If the DCR600's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack.

⓴ **Video 1 Video Outputs:** Connect to **RECORD/INPUT** composite or S-Video jack on a VCR or other video receiver.

㉑ **Video 1 Video Inputs:** Connect to **PLAY/OUT** composite or S-Video jacks on a VCR or other video source.

㉒ **Video 3 Video Inputs:** Connect to **PLAY/OUT** composite or S-Video jacks on a VCR or other video source.

㉓ **Video 2 Video Inputs:** Connect to **PLAY/OUT** composite or S-Video jacks on a VCR or other video source.

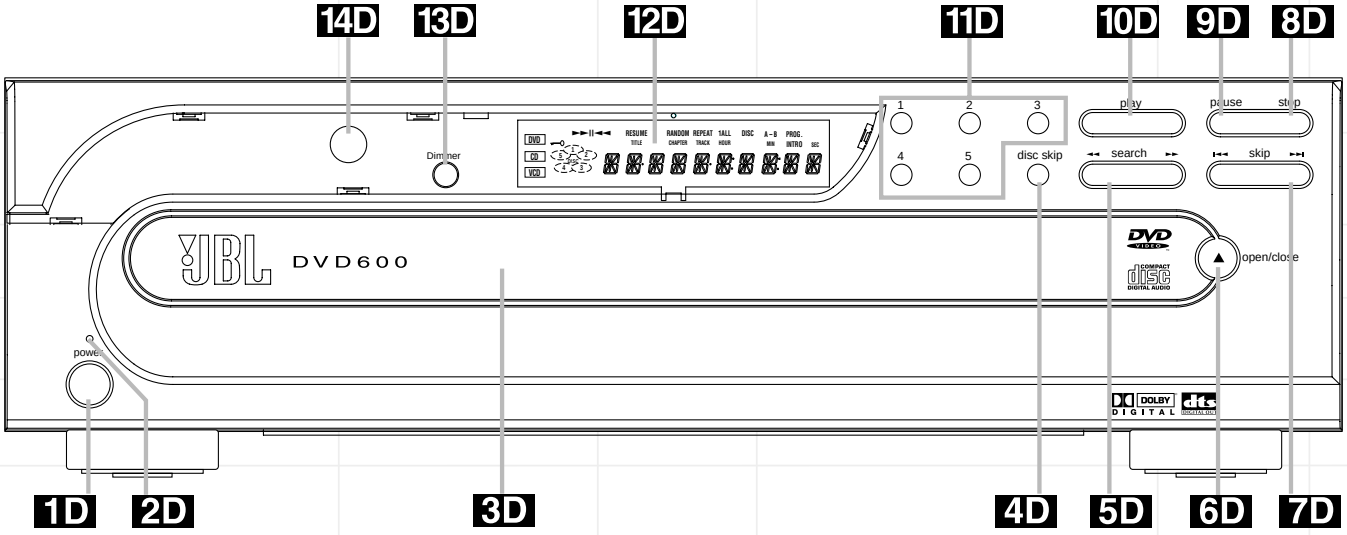
㉔ **Optical Digital Input:** Connect to optical digital output of a digital source. The signal may be either a Dolby Digital signal, a DTS signal or a standard PCM digital source.

㉕ **Coaxial Digital Inputs:** Connect to coax digital output of a digital source. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks.

㉖ **Video 3 Audio Inputs:** Connect to **PLAY/OUT** audio jacks on a VCR or other video source.

㉗ **Video 2 Audio Inputs:** Connect to **PLAY/OUT** audio jacks on a VCR or other video source.

DVD600 Front Panel Controls



1D Power Switch: Press to apply power to the DVD600. When the unit is first turned on, the **Status Indicator 2D** will turn amber, indicating that it is in Standby mode. To turn the unit on, press the **Open/Close Button 6D** or **Play Button 10D**, or use the remote control to select **DVD** ❹, and then power the unit on ❷.

2D Status Indicator: When the DVD600 is in the On mode, this indicator will glow green. When the unit is in Standby, the indicator will glow amber.

3D Disc Tray: Holds up to five DVD or CD discs that can be played one at a time in the DVD600.

4D Disc Skip: Press to change the disc being played. Each press of the button will move the tray forward to the next occupied position in the tray, skipping over the empty disc positions.

5D Search Forward/Reverse: Press to move forward or backward through a disc at one of four speeds. Each press and release will increase the search speed, as indicated in the on-screen display. Once you have selected the desired speed, release the button and the disc will continue to search at fast speed. To resume normal playback speed, press the Play button.

6D Open/Close Button: Press to open or close the **Disc Tray 3D**.

7D Skip Forward/Reverse: Press to move forward or backward through the music tracks or chapters on a disc.

8D Stop: Press once to place the disc in the Resume mode, which means that playback will stop, but (as long as the tray is not opened or the disc changed) DVD playback will continue from the same point on the disc when the Play button is pressed again. Resume will also work if the unit was turned off. To stop a disc and have play start from the beginning, press the button twice.

9D Pause: Press to momentarily pause playback. To resume playback, press the button again, or press the **Play Button 10D**. If a DVD is playing, action will freeze and a still picture will be displayed when the button is pressed.

10D Play: Press to begin playback of a disc, or to resume playback after the **Pause Button 9D** has been pressed.

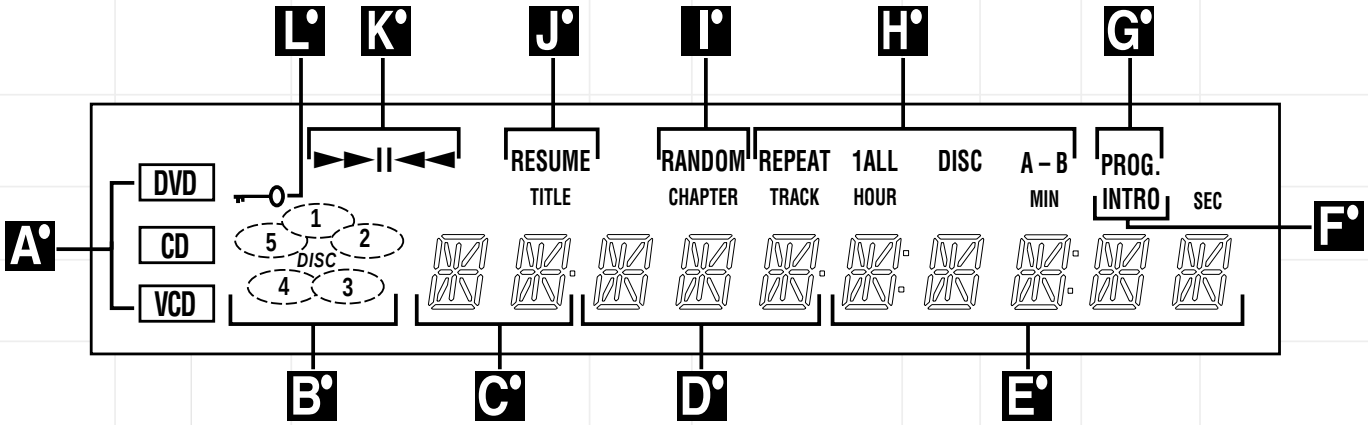
11D Direct Access Buttons: Press one of these buttons to play any of the five discs loaded in the Disc Tray.

12D Information Display: This display contains a variety of indicators that provide information about the status of the DVD600 and the disc currently playing.

13D Display Dim: Press this button to adjust the brightness of the Information Display by 50% or to turn the display off completely in the following order: FULL BRIGHTNESS → HALF BRIGHTNESS → OFF → FULL BRIGHTNESS.

14D Remote Sensor: The sensor that receives the infrared commands from the remote control is behind this area. Do not cover or obscure this part of the front panel, in order to avoid a malfunction with the remote.

DVD600 Front Panel Information Display



A Disc Type: Lights to show the type of disc currently being played.

B Disc Number: Shows if a disc is loaded in a tray position. The indicator for the disc in play flashes. Note that if a disc is added to, or removed from, the tray while a disc is playing, the indicator will not show the change until all discs are cycled.

C Title: Shows the DVD title number currently playing.

D Chapter/Track Number: Shows the current chapter (DVD) or current track number (CD).

E Program Time: Shows the running time of a DVD or current track time, time remaining in the current track, or the total remaining time of a CD.

NOTE: The Program Time Indicators will also display text messages about the DVD600's status, including `Reading` when a disc is loading, `Bye` when the unit is turned off, and `Disc Error` when a disc not compatible with the DVD600 is put into the play position.

F Intro: Lights when the Intro Scan function is active.

G Program: Lights during programming.

H Repeat: Lights to indicate any of the Repeat modes.

I Random: Lights when the unit is in the Random Play mode.

J Resume: Lights when the Stop button has been pressed once to put the unit in the Resume mode.

K Playback Mode: Lights to show the current playback mode:

▶ Lights when a disc is playing in the Normal mode.

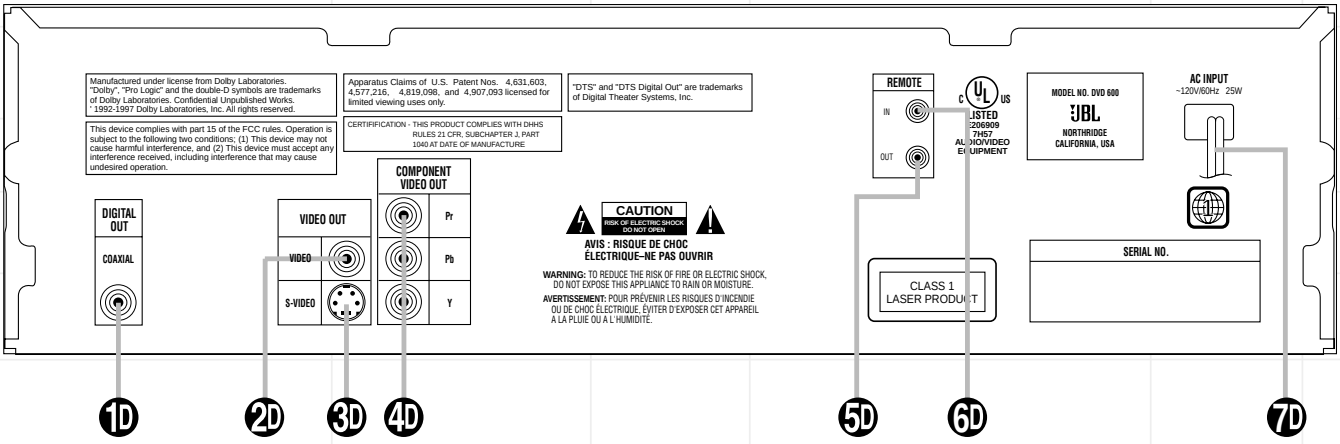
▶▶ Lights when the disc is in the Fast Search Forward mode. For DVDs, when both triangles glow steadily, the disc plays at 2x normal speed. When the right triangle is flashing, the disc plays at 4x normal speed. When the left triangle is flashing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.

▶❙❙ Lights when the disc is paused.

◀◀ Lights when the disc is in the Fast Search Reverse mode. For DVDs, when both triangles glow steadily, the disc plays at 2x normal speed. When the left triangle is flashing, the disc plays at 4x normal speed. When the right triangle is playing, the disc plays at 8x normal speed. When both triangles are flashing, the disc plays at 16x normal speed. For CDs, only the first three Fast Search modes are available.

L Parental Lock Indicator: This indicator lights when the parental-lock system is engaged in order to prevent anyone from changing the rating level without a code.

DVD600 Rear Panel Connections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Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.
"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
CERTIFICATION - THIS PRODUCT COMPLIES WITH DHHS RULES 21 CFR, SUBCHAPTER J, PART 1040 AT DATE OF MANUFACTURE
DIGITAL OUT
COAXIAL
VIDEO OUT
VIDEO
S-VIDEO
COMPONENT VIDEO OUT
Pr
Pb
Y
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
AVIS : RISQUE DE CHOC ÉLECTRIQUE–NE PAS OUVRIR
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
AVERTISSEMENT: POUR PRÉVENIR LES RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUE, ÉVITER D'EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITÉ.
REMOTE
IN
OUT
CLASS 1 LASER PRODUCT
MODEL NO. DVD 600
JBL
NORTHRIDGE CALIFORNIA, USA
SERIAL NO.
AC INPUT
~120V/60Hz 25W
1D
2D
3D
4D
5D
6D
7D

1D Coaxial Digital Output: Connect this jack to the coaxial digital input of an A/V receiver or surround processor for Dolby Digital, DTS or PCM audio playback.

NOTE: The coaxial digital output should only be connected to a digital input. Even though it is the same RCA-type connector as standard analog audio connections, DO NOT connect it to a conventional analog input jack.

2D Composite Video Output: Connect this jack to the video input on a television or video projector, or to a video input on an A/V receiver or processor if you are using that type of device for video input switching.

3D S-Video Output: Connect this jack to the S-Video input on a television or video projector, or to an S-Video input on an A/V receiver or processor if you are using that type of device for S-Video input switching.

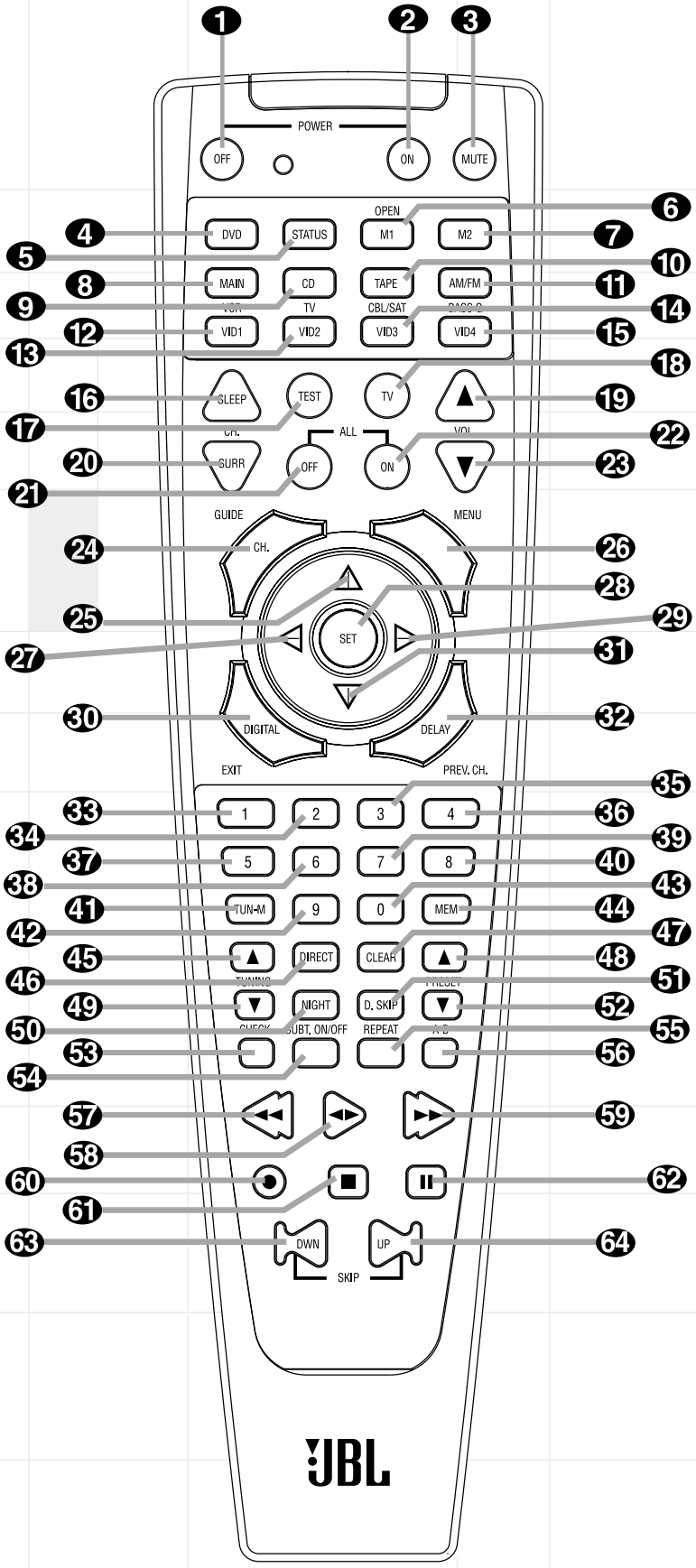
4D Component Video Outputs: If your TV or video projector has component video inputs, you may connect these output jacks to the set for the highest video quality available. Note that the component video inputs may be labeled as Y/Pr/Pb or Y/Cr/Cb but, for connection purposes, they are the same. The outputs of these jacks should NOT be connected to a standard composite video input.

5D Remote Control Output: Connect this jack to the infrared (IR) input jack of another JBL or other compatible remote-controlled product to have the built-in **Remote Sensor** 14D on the DVD600 provide IR signals to other compatible products.

6D Remote Control Input: Connect the output of a remote infrared sensor, or the remote control output of another JBL or other compatible product, to this jack. This will enable the remote control to operate even when the front panel **Remote Sensor** 14D is blocked. This jack may also be used with compatible IR remote control-based automation systems.

7D AC Power Cord: Connect this plug to an AC outlet. If the outlet is controlled by a switch, make certain that it is in the ON position.

Remote Control Functions



IMPORTANT NOTE: The JBL Cinema ProPack 600 remote control may be programmed to control up to eight devices, including the DCR600 and DVD600. It is helpful to think of the remote as being organized into "pages," with one page for each device. Depending on which device has been selected, the buttons on that device's page will perform different functions, as listed starting on the next page. These functions may vary from the labels on the remote, and from one device to the next. Some buttons may perform no function at all for a given device.

In order to go to the page for a particular device, such as the DVD600, you will need to press the Input Selector button for that device (DVD in this case), located in a grouping just below the power buttons. The remote will then function as if it were dedicated to the DVD600.

If you would like to make an adjustment that affects the DCR600 receiver, such as turning the volume up or down, you must first go to the page for the DCR600 by pressing its Input Selector button. This button is labeled "Main" on the remote. The exception to this rule is that the DVD600's transport functions – Play, Forward and Reverse Search, Stop, Pause, and Previous and Next Chapter/Track Skip – may be accessed from the "Main" page, without having to jump to the DVD page.

❶ **Power Off Button:** Turns off the power to a device selected by pressing its Input Selector.

❷ **Power On Button:** Turns on the power to a device selected by pressing its Input Selector.

❸ **Mute Button:** Press to momentarily silence the DCR600 or TV set being controlled, depending on which device has been selected.

When the remote is being programmed to operate an external device, such as a CD player, this button is pressed, together with the Input Selector button, for the new device to begin the programming process.

❹ **DVD Input Selector:** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select DVD as the input source. 3) It will switch to the page for the DVD600, which will cause the remote to operate only the DVD changer. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

❺ **Status Button:** This button operates only when the DVD600 has been selected. When a disc is playing, pressing this button will display the Status Banner, which contains information about the disc and enables you to change the functions.

❻❼ **M1 and M2 Macro Buttons/Open-Close Button:** Press these buttons to store or recall a "Macro", which is a preprogrammed sequence of commands stored in the remote.

When the DVD600 has been selected, the **M1 Button** ❻ functions to open or close the disc tray drawer. (**M2** ❼ has no function.) If the drawer is opened while a disc is still playing, playback will continue and discs not in use may be changed. If the drawer is opened while the unit is stopped, the disc that was playing will be presented at the front-center position of the tray.

❽ **Main Input Selector:** Pressing this button will perform two actions: 1) If the DCR600 is not turned on, it will power up. 2) It will switch to the page for the DCR600, which will cause the remote to operate only the receiver and the transport functions of the DVD600.

❾ **CD Input Selector:** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select CD as the input source. 3) It will switch to the page for the CD player whose codes have been programmed into the remote, which will cause the remote to operate only the CD player. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

❿ **Tape Input Selector:** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select TAPE as the input source. 3) It will switch to the page for the tape deck whose codes have been programmed into the remote, which will cause the remote to operate only the tape deck. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

⓫ **AM/FM Tuner:** Selects the DCR600's tuner as the listening choice. Pressing this button when the tuner is already in use will select between the AM and FM bands.

⓬ **Video 1 Input Selector (VCR):** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 1 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your VCR to the Video 1 input, since it is the only video source that also features outputs for recording. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

⓭ **Video 2 Input Selector (TV):** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 2 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your television to the Video 2 input. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

⓮ **Video 3 Input Selector (Cable or Satellite):** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 3 as the input source. 3) It will switch to the page for the video device whose codes have been programmed into the remote, which will cause the remote to operate only that video device. You may find it convenient to connect your cable television box or satellite receiver to the Video 3 input. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

⓯ **Video 4 Input Selector:** Pressing this button will perform three actions: 1) If the DCR600 is not turned on, it will power up. 2) It will select VIDEO 4 (the front-panel input) as the input source. 3) It will switch to a special page that is preprogrammed to operate the JBL BassQ™ low-frequency equalization module. You may find it convenient to connect your portable camcorder or video game to the Video 4 input. Press the **Main Button** ❽ to return the remote to control of the DCR600 receiver.

⓰ **Sleep:** Places the DCR600 in the Sleep Timer mode. After the time shown in the display has elapsed, the DCR600 will automatically go into Standby. Each press of this button changes the time until turn-off in intervals of 10 minutes, starting with a maximum of 90 minutes.

This button is also used to change channels on your TV when the TV is selected.

This button is also used during the "Auto Search" procedure when programming the remote.

⓱ **Test:** Begins the sequence used to calibrate the speaker output levels.

When the CD input has been selected and a CD recorder is in use, this button is used to select among the analog and digital inputs to the CDR.

⓲ **TV/VCR:** This button does not have a function on the DCR600 or DVD600, but when used with a compatibly programmed VCR, DVD, TV or Satellite receiver that has a "TV/Video" function, pressing this button will switch between the output of that device and the external video input to that device. Consult the owner's manual for your specific player or satellite receiver for the details of how it implements this function.

⓳ **Volume Up:** Use to raise the system volume.

⓴ **Surround Mode/Audio:** Begins the process of changing the surround mode when the DCR600 is selected. After the button has been pressed, use the **▲/▼ Buttons** ㉕ ㉛ to select the desired surround mode.

When the DVD600 is selected, this button allows you to select from the available audio tracks or languages on a DVD disc that is currently playing.

This button is also used to tune channels when the TV is selected.

This button is also used during the "Auto Search" procedure when programming the remote.

㉑ **All Off:** Simultaneously sends Power Off commands to all programmed devices controlled by the remote.

㉒ **All On:** Simultaneously sends Power On commands to all programmed devices controlled by the remote.

㉓ **Volume Down:** Use to lower the system volume.

㉔ **Channel/Title/Guide:** Starts the process of setting the DCR600's speaker output levels using an input source rather than the test tone. Press this button, then use the **▲/▼ Buttons** ㉕ ㉛ to select the channel being adjusted, followed by the **Set Button** ㉘. You may then use the **▲/▼ Buttons** ㉕ ㉛ again to change the level for that channel. Press the **Set Button** ㉘ to lock in the setting.

When using the DVD600 to play a DVD disc, this button functions as a Title button, and displays the disc's Title Select Menu, or a symbol (Ø) if the disc either does not offer this function or has only one title.

When the Video 3 input has been programmed for a cable or satellite service, this button will access the service's programming guide, if the service is active.

㉕ **▲:** Used to change or scroll through items in the on-screen menus, or to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed, such as Surround Mode or Digital Input, and then press this button to scroll through the list of available choices.

㉖ **Menu:** Used only with video sources. When DVD is selected, pressing this button while a DVD disc is playing stops playback and displays the disc's menu. When the unit is stopped, pressing this button displays the DVD600's Setup Menu.

㉗ **◀:** Used to change the menu selection or setting during some of the setup or other procedures.

㉘ **Set:** Used to enter settings into the memory of the DCR600, DVD600 or video device selected. Also used in the setup procedures for delay time, speaker configuration and channel output level adjustment. When the DVD600 has been selected, pressing this button will select the item that is highlighted in the Status Banner, or in the on-screen menu displayed by a DVD disc.

㉙ **▶:** Used to change the menu selection or setting during some of the setup or other procedures.

㉚ **Digital/Subtitle/Exit:** When the DCR600 is selected, press this button to assign one of the digital inputs to a source. When the DVD600 is selected, this button is used to change the subtitle choice. For other video devices, it exits the menu.

㉛ **▼:** Used to change or scroll through items in the on-screen menus, or to change configuration settings, such as output levels. When changing an item such as the surround mode or digital input directly, first press the function or mode to be changed, such as Surround Mode or Digital Input, and then press this button to scroll through the list of available choices.

㉜ **Delay/Return/Prev Ch.:** Begins the process for setting the delay times used by the DCR600 when processing surround sound. After pressing this button, the delay times are entered by pressing the **Set Button** ㉘ and then using the **▲/▼ Buttons** ㉕ ㉛ to change the setting. Press the **Set Button** ㉘ again to complete the process.

This button is also used when viewing a menu display from a DVD disc. Press it to return to the previous menu screen.

㉝–㊵, ㊷ ㊸ **Numeric Keys:** These buttons serve as a ten-button numeric keypad to enter tuner preset positions. They are also used with the DVD600 to enter data for sequential programming, to enter or change the access password for parental control, to enter a language code, or to respond to menu options presented by a disc. When the TV or another video device is selected, they are used to select channel numbers. They may also be used to select track numbers when playing a CD, DVD or LD.

㊶ **Tuner Mode/Angle:** Press this button when the tuner is in use to select between automatic tuning and manual tuning. When the button is pressed so that the **AUTO** indicator **V** goes out, pressing the **Tuning Buttons** ㊺ ㊾ **8** will move the frequency up or down in single-step increments. When the FM band is in use, pressing this button when a station's signal is weak will change to monaural reception.

When a DVD encoded with multiple-angle information is playing, press to change the angle in use. Note that this function is only available on discs that are specially prepared to take advantage of the multiple-angle function, and only for those parts of the disc that are recorded with multiple-angle content. The DVD600 will display a camera icon on the screen to indicate when this feature is available.

㊹ **Memory:** Enters a radio station into the DCR600's preset memory. Once the **MEMORY Indicator** **S** flashes, you have five seconds to enter a preset memory location using the **Numeric Keys** ㉝–㊵, ㊷ ㊸. Repeat the process to enter additional stations.

㊺ ㊾ **Tuning Up/Down/Step (Frame Advance) Buttons:** When the tuner is in use, these buttons will tune up or down through the selected frequency band. If the **Tuner Mode Button** ㊶ **12** has been pressed so that the **AUTO Indicator** **V** is illuminated, pressing and holding either of the buttons for three seconds will cause the tuner to seek the next station with acceptable signal strength for quality reception. When the **AUTO Indicator** **V** is NOT illuminated, pressing these buttons will tune stations in single-step increments.

When a DVD disc is playing, press these buttons to move forward or backward one frame at a time. Press the **Play Button** ㊽ **10D** to resume normal play. These buttons do not function when a CD is playing.

㊻ **Direct/Program Button:** Pressing this button in tuner mode starts the sequence for direct entry of a station's frequency or CD track. After pressing the button, simply press the proper **Numeric Keys** ㉝–㊵, ㊷ ㊸ to select a station or track.

When the DVD600 is stopped, press this button to display the program menu and enter a programmed play sequence. When a disc is playing, press to switch between normal play and programmed playback.

㊼ **Clear Button:** Erases incorrect entries when using the remote to directly enter a radio station's frequency.

When the DVD600 has been selected, press this button to remove the Status Banner or other displays from your video screen. This button is also used to clear items from Programmed Play lists.

48 52 Preset Up/Down/Slow-Play Buttons: When the tuner is in use, press these buttons to scroll through the stations programmed into the DCR600's memory.

When a DVD disc is playing and the DVD600 has been selected, press these buttons to move forward or backward through the disc in slow speed. Each press of these buttons changes the slow-play speed in the following order: 1/16 Normal Speed → 1/8 Normal Speed → 1/4 Normal Speed → 1/2 Normal Speed. To resume normal play, press the **Play Button** 58 10D . These buttons do not function when a CD is playing.

50 Night Mode/Random: Activates the Night mode of the DCR600. This mode is available in specially encoded digital sources, and it preserves dialogue (center-channel) intelligibility at low volume levels.

When the DVD600 has been selected, press to begin the playback of all tracks on a disc in random order.

51 Disc Skip Button: Press to move to the next available disc in the tray when using a DVD or CD player. This button has no direct effect on the DCR600.

53 Check: This button only functions when the DVD600 has been selected. When a CD is playing, press this button to check the status of the current disc via the on-screen display. This button is also used to verify the contents of a programmed play list via the front-panel Information Display.

54 Subtitle On/Off: This button only functions when the DVD600 has been selected. When a DVD is playing, press this button to turn the Subtitle Display on or off.

55 Repeat: This button only functions when the DVD600 or a CD player has been selected. Press to select a Repeat-Play mode. Each press of the button shows the choice selected in both the on-screen Status Banner display or in the **Repeat Indicators** H in the front-panel Information Display.

56 Repeat A–B: This button only functions when the DVD600 has been selected. Press once to begin the selection of a portion of a disc to be repeated. Press it again to choose the end point of the repeat-play selection.

NOTE: When any of the following buttons 57–64 is pressed while the remote has selected the Main Page, the remote will automatically switch to control of the DVD, as indicated by the DVD **Input Selector** 4 lighting.

57 Reverse Search/Rewind: When the DVD600 has been selected, press to move backward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: R. Search x 2 → R. Search x 4 → R. Search x 8 → R. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play Button** 58 10D .

When a tape deck or VCR has been selected, this button rewinds the tape.

58 Play Button: Press to begin playback when the DVD600 has been selected. If the disc tray drawer is open, it will automatically close when the button is pushed. Pressing the Play button when the unit is in the Standby mode will turn the unit on and begin playback of the last disc in use.

When a CD player, tape deck or VCR has been selected, pressing this button will also begin playback. See the owner's manual for that device for more information on the operation of the play function as it affects that device.

59 Forward Search/Fast Forward: When the DVD600 has been selected, press to move forward through a CD or DVD at one of four speeds. Each press and release will increase the search speed, in the following order: F. Search x 2 → F. Search x 4 → F. Search x 8 → F. Search x 16. Once you have selected the desired speed, release the button, and the disc will continue to search at fast speed. To resume normal playback, press the **Play Button** 58 10D .

When a tape deck or VCR has been selected, this button fast-forwards the tape.

60 Record Button: This button only functions when a CD/CDR, tape deck or VCR connected to the Video 1 input has been selected. See the owner's manual for that device for further information on how to make recordings.

61 Stop Button: This button has no effect on the DCR600. When the DVD600 has been selected, press this button once to place the disc in the Resume mode. Playback will stop, and as long as the tray is not opened or the disc changed, DVD playback will continue from the same point on the disc when the **Play Button** 58 10D is pressed again, even if the unit has been turned off in the interim. To stop a disc without entering Resume mode, press the Stop button twice.

This button also performs the Stop function when a CD player, tape deck or VCR connected to the Video 1 input has been selected.

62 Pause Button: Press to pause the disc in use. To resume playback, either press the Pause button again, or press the **Play Button** 58 10D .

63 64 Previous/Next: Press to move backward or forward through the music tracks on a CD disc or the chapters on a DVD disc. This button also scans backward or forward when a VCR connected to the Video 1 input has been selected.

Remote Control Function Grid

#	Device / Button	MAIN DCR600 + DVD600	DVD	CD/CDR	Tape	VCR (VID 1)	TV (VID 2)	CBL (VID 3)	SAT (VID 3)	BASSQ (VID 4)
01	POWER OFF	Power Off	Power Off	Power Off		Power Off	Power Off	Power Off	Power Off	
02	POWER ON	Power On	Power On	Power On		Power On	Power On	Power On	Power On	
03	MUTE	Mute	Mute	Mute		Mute	Mute	Mute	Mute	
04	DVD	DVD Input Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select	DVD Select
05	STATUS		STATUS							
06	M1	M1	Open/Close	Open/Close		Cancel	Sleep	PPV	Cancel	
07	M2	M2		Repeat				FAV	FAV	
08	MAIN	DCR Select	DCR Select	DCR Select	DCR Select	DCR Select	DCR Select	DCR Select	DCR Select	DCR Select
09	CD	CD Input Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select	CD Select
10	TAPE	Tape Input Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select	Tape Select
11	AM/FM	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select	Tuner Select
12	VID1	Video 1 Select	Video 1 Select	Video 1 Select	Video 1 Select	Video 1 Select	Video 1 Select	Video 1 Select	Video 1 Select	Video 1 Select
13	VID2	Video 2 Select	Video 2 Select	Video 2 Select	Video 2 Select	Video 2 Select	Video 2 Select	Video 2 Select	Video 2 Select	Video 2 Select
14	VID3	Video 3 Select	Video 3 Select	Video 3 Select	Video 3 Select	Video 3 Select	Video 3 Select	Video 3 Select	Video 3 Select	Video 3 Select
15	VID4	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select	Video 4 Select
16	Sleep	Sleep				Channel+	Channel+	Channel+	Channel+	
17	Test	Test Tone		Input Select						
18	TV/VCR		TV/DVD	CDP Select		TV/VCR	TV/VCR	TV/Cable	TV/Sat	
19	Volume UP	Volume Up	Volume Up	Input Level Up		Volume Up	Volume Up	Volume Up	Volume Up	
20	Surround Select	Surround Mode Select	Audio	CDR Select		Channel-	Channel-	Channel-	Channel-	
21	ALL OFF	Sends "OFF" Commands Simultaneously for ALL 8 Devices								
22	ALL ON	Sends "ON" Commands Simultaneously for ALL 8 Devices								
23	Volume Down	Volume Down	Volume Down	Input Level Down		Volume Down	Volume Down	Volume Down	Volume Down	
24	Channel/Guide	Channel Trim	Title					Info/Guide	Info/Guide	
25	Up	Move/Adjust Up	Up			Up	Up	Up	Up	Level Up
26	Menu		Menu			Menu	Menu	Menu	Menu	
27	Left	Move/Adjust Left	Left			Left	Left	Left	Left	
28	Set	Set	Enter			Enter	Enter	Enter	Enter	Enter
29	Right	Move/Adjust Right	Right			Right	Right	Right	Right	
30	Digital/Exit	Digital Input Select	Subtitle			Exit	Exit	Exit	Exit	
31	Down	Move/Adjust Down	Down			Down	Down	Down	Down	Level Down
32	Delay/Prev. Ch.	Delay Adjust	Return	Time			Prev. Channel	Prev. Channel	Prev. Channel	
33	1	1	1	1		1	1	1	1	
34	2	2	2	2		2	2	2	2	
35	3	3	3	3		3	3	3	3	
36	4	4	4	4		4	4	4	4	

Remote Control Function Grid

#	Button \ Device	MAIN DCR600 + DVD600	DVD	CD/CDR	Tape	VCR (VID 1)	TV (VID 2)	CBL (VID 3)	SAT (VID 3)	BASSQ (VID 4)
37	5	5	5	5		5	5	5	5	
38	6	6	6	6		6	6	6	6	
39	7	7	7	7		7	7	7	7	
40	8	8	8	8		8	8	8	8	
41	Tun-M	Tuner Mode	Angle Select	Random Play				Bypass	Next	
42	9	9	9	9		9	9	9	9	
43	0	0	0	0		0	0	0	0	
44	Memory	Memory								
45	Tuning Up	Tune Up	Step +					Day+	Day+	
46	Direct	Direct Tuner Entry	Program	Track Direct						
47	Clear	Clear	Clear	Clear		Clear	Clear	Clear	Clear	
48	Preset Up	Preset Tune Up	Slow Forward	(+10)				Page+	Page+	
49	Tuning Down	Tune Down	Step–	Track Increment				Day–	Day–	
50	Night	Night Mode Select	Random							
51	D. Skip	Disc Skip	Disc Skip	Disc Skip						
52	Preset Down	Preset Tune Down	Slow Reverse	Intro Scan				Page–	Page–	
53	CHECK		Check							
54	Subtitle On/Off		Subtitle On/Off							
55	REPEAT		Repeat	Repeat						
56	A–B		A–B							
57	◀◀	REW (DVD)	R. Search	R. Search	Rewind	Rewind	Unknown	Unknown	Unknown	
58	PLAY (◀▶)	PLAY (DVD)	Play	Play	F. Play R. Play	Play	Unknown Unknown	Unknown Unknown	Unknown Unknown	
59	▶▶	FF (DVD)	F. Search	F. Search	Fast Fwd.	Fast Fwd.	Unknown	Unknown	Unknown	
60	RECORD			Record	Record	Record				
61	STOP	STOP (DVD)	Stop	Stop	Stop	Stop	Unknown	Unknown	Unknown	
62	PAUSE	PAUSE (DVD)	Pause	Pause	Pause	Pause	Unknown	Unknown	Unknown	
63	PREV.	PREV. CHAP (DVD)	Prev.	Skip–		Scan–	Unknown	Unknown	Unknown	
64	NEXT	NEXT. CHAP (DVD)	Next	Skip+		Scan+	Unknown	Unknown	Unknown	

Remote Control Code Tables

TV

Maker (Brand) Name	Setup Code Number
A-MARK	103 132
ADMIRAL	192
AKAI	123 160
AMPRO	164
ANAM	045 103 106 109 112 122
AOC	103 123 128
BLAUPUNKT	084
BROKSONIC	205 206
CANDLE	123 128
CAPEHART	059
CENTURION	123 171
CETRONIC	045
CITIZEN	045 123 128 132
CLASSIC	045
CONCERTO	128
CONTEC	045
CORANDO	172
CORONADO	132
CRAIG	045 157 158 159
CROWN	045 132
CURTIS MATHES	123 128 132
CXC	045
DAEWOO	045 087 102 105 106 108 111 114 116 119 127 128 132
DAYTRON	128 132
CIGI LINK	200
DYNASTY	045
DYNATECH	063
ELECTROHOME	115 132
EMERSON	045 123 128 132 139 157 158 159 162 205
FUNAI	045
FUTURETECH	045
GE	087 121 123 128 133 145 159 163
GOLDSTAR	101 103 110 128 132
GRUNDIG	193
HALL MARK	128
HARMAN KARDON	201
HITACHI	123 128 132 144 147
INFINITY	148
INKEL	120
JBL	148
JC PENNEY	115 123 128 132 145
JENSEN	019
JVC	079 087 134
KAWASHO	173
KEC	045
KENWOOD	123 204
KMC	132
KTV	045 123 132 162
LLOYTRON	172 173
LODGENET	069
LOGIK	069
LUXMAN	128
LXI	077 145 148
MAGNAVOX	123 128 132 145 148
MARANTZ	115 123 148
MATSUI	148
MEMOREX	069 128
METZ	084

Remote Control Code Tables
TV

Maker (Brand) Name	Setup Code Number						
MGA	115	123	128				
MINERVA	084						
MITSUBISHI	077	115	123	128	160	167	168
MTC	175	176					
NATIONAL	148	177	179	180	181	182	
NEC	115	121	123	125			
NIKEI	045						
ONKING	045						
ONWA	045						
OPTONICA	077						
ORION	207	208	209	210	211		
PANASONIC	087	148	169				
PHILCO	045	115	123	128	132	148	
PHILIPS	123	128	132	145	148		
PIONEER	024	123	128	213	214		
PORTLAND	128	132					
PROSCAN	133						
PROTON	059	122	128	132	165		
QUASAR	087						
RADIO SHACK	045	128	132	180	196	197	
RCA	115	123	128	133	145	161	163
REALISTIC	045	196	167				
RUNCO	152	153					
SAA	183						
SAMPO	059	123	128				
SAMSUNG	124	128	132	145			
SANYO	054						
SCOTT	045	128	132				
SEARS	128	132	145				
SHARP	077	128	132				
SIEMENS	084						
SIGNATURE	069						
SONY	117	130	136	194	212		
SOUNDESIGN	045	128					
SPECTRICON	103						
SSS	011	045					
SYLVANIA	123	128	145	148			
SYMPHONIC	184						
TANDY	077						
TATUNG	063						
TECHNICS	080						
TECHWOOD	128						
TEKNIKA	045	069	115	123	128	132	
TELERENT	069						
TERA	156						
THOMSON	190	191					
TMK	128						
TOSHIBA	063	129	202				
TOTEVISION	132						
VIDEO CONCEPTS	160						
VIDTECH	128						
WARDS	069	128	132	148			
YAMAHA	123	128					
YORK	128						
YUPITERU	045						
ZENITH	069	090					
ZONDA	103						

Remote Control Code Tables
VCR

Maker (Brand) Name	Setup Code Number
AIWA	040
AKAI	048 108 109 126
AMPRO	076
AMSTRAD	133
ASA	134
AUDIO DYNAMICS	018 048
BROKSONIC	110 147 166
CANDLE	134 135 140
CANON	135 140
CAPEHART	094
CITIZEN	134 140
CRAIG	094
DAEWOO	134
DAYTRON	045 116
DBX	017 094 104 105
DUAL	094
DYNATECH	018 048
ELECTROHOME	136
EMERSON	040
FERGUSON	131
FINLUX	013 040 042 105 110 112 119 134 143
FISHER	136
FUNAI	133
GE	017 142
GO VIDEO	113 117
GOLDSTAR	018 107 134
GRAETZ	136
HARMAN KARDON	018 049
HITACHI	040 048 118 130
ITT	136
JC PENNEY	018 045 134
JENSEN	048
JVC	018 048 111 130 132
KENWOOD	020 048
LLOYD	040
LXI	020 040 134
MAGIN	045
MAGNAVOX	040
MARANTZ	018
MARTA	134
MATSUI	036
MEMOREX	017 020 040 076 115 120 134
MGA	049 131
MITSUBISHI	049 131 145 146
MTC	133
MULTITECH	040
NAD	139
NATIONAL	140
NEC	018 048

Remote Control Code Tables
VCR

Maker (Brand) Name	Setup Code Number
NORDMENDE	048
OPTIMUS	159
ORION	147 166
PANASONIC	114 125 150 167 172
PHILCO	040
PHILIPS	040 134
PILOT	134
PROTLAND	094
PULSAR	076
QUARTZ	020
QUASAR	125 161
RADIO SHACK	020 129 133 134 140 142 158 159 161
RCA	095 124 125 127 157 172
REALISTIC	017 020 040 045 129 133 134 140 142 159
RICO	062
RUNCO	128
SABA	136
SAISHO	143
SALORA	020
SAMSUNG	045 080 095 105 106 109 124 155
SANSUI	048 116 147 166
SANYO	017 115
SCHAUB LORENZ	136
SCOTT	105 110 112
SEARS	017 020 134 142
SHARP	129 156
SONY	062 080 081 129
SOUNDESIGN	040
SYLVANIA	040 131
SYMPHONIC	040
TANDY	017 040
TASHICO	134
TATUNG	048
TEAC	040 048
TEKNIKA	040 134
TELEFUNKEN	136
THOMAS	040
THOMSON	136
THORN	136
TMK	013
TOSHIBA	105 112 131 142 155
TOTEVISION	045 134
UNITECH	045
VECTRO RESEARCH	018
VIDEO CONCEPTS	018 040
VIDEOSONIC	045
WARDS	040 045 105 112
YAMAHA	018 040 048
ZENITH	040 062 076 080 083 134

Remote Control Code Tables
CATV

Maker (Brand) Name	Setup Code Number
ABC	001 011
ALLEGRO	111
AMERICAST	212
ARCHER	112
BELCOR	113
CABLE STAR	033 113
CITIZEN	111
COLOUR VOICE	085 090
DIGI	114
EAGLE	186
EASTERN	066 070
ELECTRICORD	039
EMERSON	112
FOCUS	116
G.I.	001 011 017 096 097
GC ELECTRONICS	113
GEMINI	032 060
GENERAL	210
GENERAL INSTRUMENT	168
GOODMIND	112
HANLIN	056 099 100 101 117 175 208
HITACHI	001 188
JASCO	111
JERROLD	001 002 011 017 073 096 097 162 168 188 210
LINSAY	118
MACOM	191
MAGNAVOX	017 019 068
MOVIE TIME	035 039
NSC	035 190
OAK	197
PACE	179
PANASONIC	053 176 177 189 214
PANTHER	114
PHILIPS	013 019 020 085 090
PIONEER	001 041 119 171 209
POPULAR MECHANIC	116
PRELUDE	120
PRIMESTAR	162
PTS	049
RADIO SHACK	111 112 213
RCA	053 214
RECOTON	116
REGAL	056 099 100 101 208
REMBRANDT	032
SAMSUNG	072 186
SCIENTIFIC ATLANTA	049 183 203
SEAM	121
SIGNATURE	001 188

Remote Control Code Tables
CATV

Maker (Brand) Name	Setup Code Number				
SPRUCER	053	081	177	189	
STARCOM	002	011	163		
STARGATE	120				
TANDY	024				
TELECAPATION	028				
TEXSCAN	036				
TFC	122				
TIMELESS	123				
TOCOM	170	205			
UNITED CABLE	011				
UNIVERSAL	033	034	039	042	113
VIDEOWAY	124	211			
VIEWSTAR	019	025	086	089	190
ZENITH	065	125	211		
ZENTEK	116				

Remote Control Code Tables
SATELLITE RECEIVERS

Maker (Brand) Name	Setup Code Number
ALPHASTAR	472
ALPHASTAR DBS	450
ALPHASTAR DSR	442
BIRDVIEW	425
CHANNEL MASTER	320 321 322 325 361
CHAPARRAL	315 316 380 451
CITOH	360
DRAKE	313 317 318 413 481
DX ANTENNA	331 352 362 379 483
ECHOSTAR	395 397 452 453 463 477 478 484 485
ELECTRO HOME	392
FUJITSU	324 329 334
GENERAL INSTRUMENT	303 311 323 365 403 454 468 474
HITACHI DBS	455
HOUSTON TRACKER	463
HUGHES	437
JANIEL	366
JERROLD	454 468 484
KATHREIN	410
LEGEND	453
MACOM	317 365 369 370 371
MAGNAVOX	461 473
MEMOREX	453
NEXTWAVE	423
NORSAT	373
OPTIMUS	466
PANASONIC	366 469
PANASONIC DBS	457
PANSAT	420
PERSONAL CABLE	418
PHILIPS	375
PICO	407
PRESIDENT	381 404
PRIMESTAR	412 454 468 475
RCA	301 439 465
RCA DSS	458
REALISTIC	349 480
SAMSUNG	442
SATELLITE SERVICE	335 388
SCIENTIFIC ATLANTA	339
SONY	405
STAR CHOICE DBS	459
STARCAST	347
SUPER GUIDE	327 423
TEECOM	330 333 390 391 393 409
TOSHIBA	302 426 460 461 462 470
UNIDEN	323 332 348 349 350 351 354 355 381 383 389 403 466 479 480
ZENITH	384 385 387 394 419

Remote Control Code Tables
CD PLAYERS

Maker (Brand) Name	Setup Code Number								
ADCOM	063	069							
AIWA	072	111	118	156	170				
AKAI	050	177	184						
AUDIO TECHNICA	053								
AUDIOACCESS	125								
AUDIOFILE	211								
BSR	044								
CALIFORNIA AUDIO	015	109							
CAPETRONIC	070								
CARRERA	087								
CARVER	136	140	141	143	144	145	185	186	
CASIO	117	122	166						
CLARINETTE	122	166							
DENON	187	188	213						
EMERSON	052	093	108						
FISHER	055	068							
FRABA	117								
FUNAI	126								
GE	164								
GENEXXA	108								
GOLDSTAR	016	087							
HAITAI	099	214							
HARMAN KARDON	001	002	025	054	190	218	219		
HITACHI	093								
INKEL	216								
JC PENNEY	098	147							
JENSEN	153								
JVC	176	195	196						
KENWOOD	030	062	078	079	148	151	176	178	181
LOTTE	108								
LUXMAN	077	102							
LXI	164								
MAGNAVOX	039	113							
MARANTZ	058	084	191	192	193				
MCINTOSH	194								
MCS	080	098							
MITSUMI	152								
MODULAIRE	122	166							
NAD	013	074	197	198					
NAKAMICHI	199	200	201						
NEC	069								
NIKKO	053	055							
ONKYO	037	038	045	046	171	175	202	203	
OPTIMUS	065	089	091	092	099	104	212		
PANASONIC	015	075	109	119	158	183	204		
PHILIPS	039	138	149	209					
PIONEER	071	094	100	112	123	131	161	162	215
PROTON	210								
QUASAR	015	109							
RADIO SHACK	122	126	213						
RCA	024	081	093	150					

Remote Control Code Tables

CD PLAYERS

Maker (Brand) Name	Setup Code Number
RCX	169
REALISTIC	058 093 095 104 105 108 164 166
SANSUI	047 081 134 157 172
SANYO	033 068 082 095 168
SCOTT	108
SHARP	058 105 114 151 159 167 180 181
SHERWOOD	003 041 058 105 133
SONY	103 115 116 118 132 139 163 205 206 207 208 212 217
SOUNDSTREAM	124
SYMPHONIC	059 110
TAEKWANG	177
TEAC	011 058 085 086 106 107 110 121 137 146 154
THETADIGITAL	039
TOSHIBA	013 074 097 151 155 173
VECTOR RESEARCH	087
VICTOR	120 130
WARDS	095
YAMAHA	019 031 053 061 135 169
YORX	122 166

RECEIVERS

Maker (Brand) Name	Setup Code Number
JBL DCR 600	001
HARMAN KARDON	001

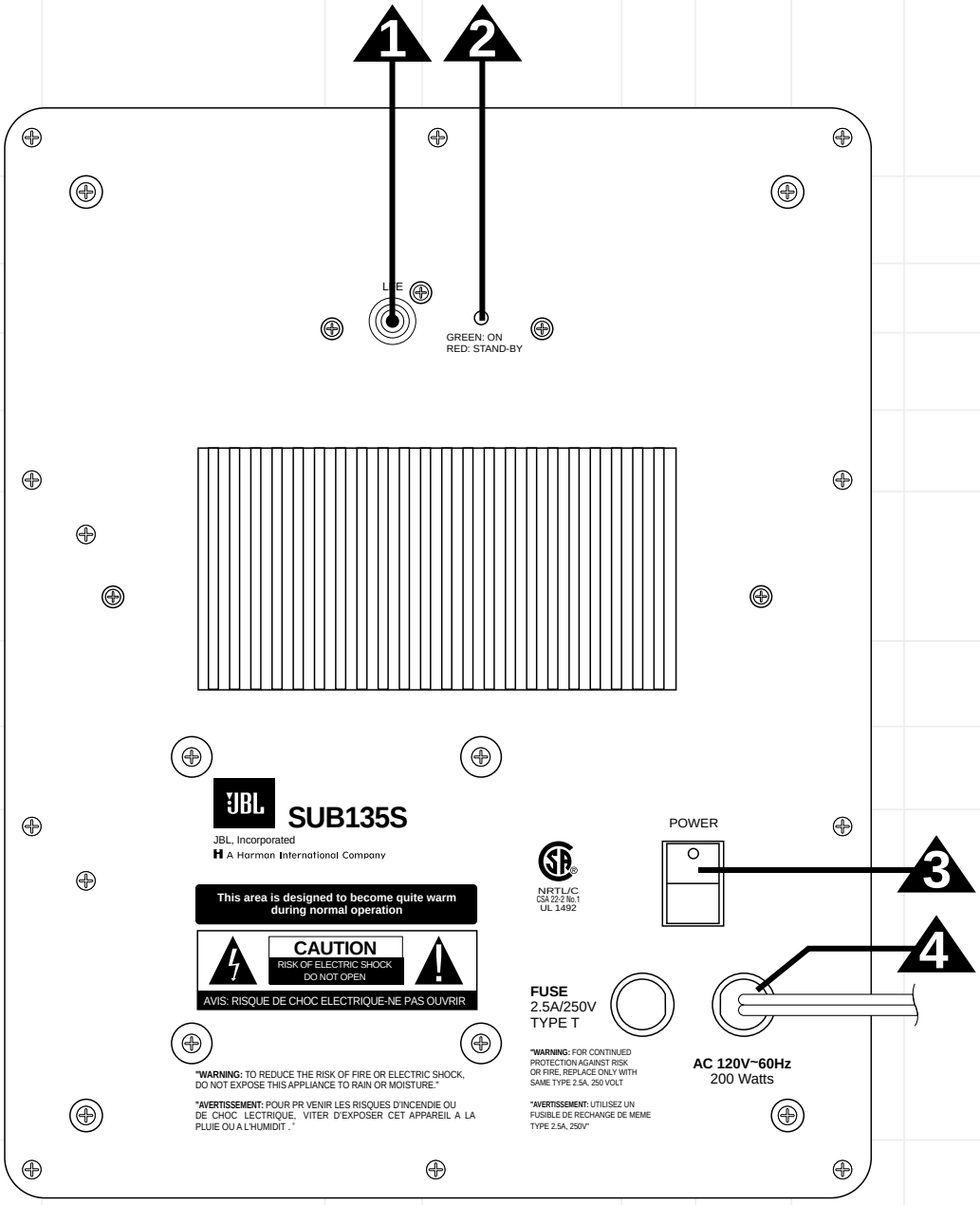
TAPE DECK

Maker (Brand) Name	Setup Code Number
HARMAN KARDON	001

Remote Control Code Tables
DVD PLAYERS

Maker (Brand) Name	Setup Code Number
CALIFORNIA AUDIO	040
DENON	002 019 022 034 051
GE	003 004
GOLDSTAR	005
HARMAN KARDON	001 032
JBL DVD600	001
JVC	006
KENWOOD	007 050
LOTTE	008
MAGNAVOX	009 033 056
MARANTZ	033
MITSUBISHI	023 036
NAD	010
ONKYO	015 048
OPTIMUS	011 050
PANASONIC	024 025 034 035 044 052
PHILIPS	033 056
PIONEER	012 020 038 041 046 047
PROSCAN	037
RCA	018 037
RUNCO	027
SAMSUNG	031 053 054
SANYO	013 049
SHARP	021 028 050
SONY	015 029 043 045
TECHNICS	026
THOMSON	003 004
TOSHIBA	033 047 057
YAMAHA	016 017 030
ZENITH	033 055
ZENITH DIVX	039

SCS135S Subwoofer Rear Panel


1
2
LFE
GREEN: ON
RED: STAND-BY
SUB135S
JBL, Incorporated
A Harman International Company
This area is designed to become quite warm during normal operation
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR
"WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE."
"AVERTISSEMENT: POUR PR VENIR LES RISQUES D'INCENDIE OU DE CHOC LECTRIQUE, VITER D'EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDIT ."
NRTL/C
CSA 22.2 No.1
UL 1492
POWER
3
4
FUSE
2.5A/250V
TYPE T
"WARNING: FOR CONTINUED PROTECTION AGAINST RISK OR FIRE, REPLACE ONLY WITH SAME TYPE 2.5A, 250 VOLT
"AVERTISSEMENT: UTILISEZ UN FUSIBLE DE RECHANGE DE MEME TYPE 2.5A, 250V"
AC 120V~60Hz
200 Watts

1 LFE Input: Connect to **LFE/Subwoofer Output** ⓫ on rear panel of DCR600 receiver using the single-lead RCA cable with brown connectors.

2 LED: Lights green when a low-frequency signal is present and the subwoofer is playing. Lights red when no low-frequency audio signal is present to indicate that the subwoofer is plugged in, powered on and in the Standby mode.

3 Power Switch: Turn the power switch to the "●" (dot) position to power the unit on. The SCS135S subwoofer will automatically turn itself on and go into Standby (Sleep) mode when left in the On position. When your DCR600 is off, or is not sending program material to the subwoofer, the subwoofer will be in Standby mode. When the subwoofer senses an audio signal, it will automatically turn itself on. If the subwoofer does not sense a signal after approximately twenty minutes, it will automatically go into Standby mode. If you will be away from home for an extended period of time, or if the subwoofer will not be used, turn this switch off to conserve electricity and for safety.

4 AC Power Cord: Plug the power cord into an unswitched outlet.

CONFIGURING THE DCR600 RECEIVER

Once the speakers have been placed in the room and connected, the remaining steps in the setup process are to calibrate the output levels and set the delay times used by the surround-sound processor.

The DCR600 features an advanced memory system that enables you to establish different configurations for the speaker configuration, surround mode, delay times and output levels for each input source. This flexibility enables you to custom-tailor the way in which you listen to each source and have the DCR600 memorize those settings. This means, for example, that you may use different output levels or trims for different sources, or set different speaker configurations with the resultant changes to the bass management system. Once these settings are made, they will automatically be recalled whenever you select that input.

The factory default settings for the DCR600 have all inputs (except DVD) configured for an analog source, and stereo as the surround mode. Before using the unit, you will probably want to change the settings for most inputs so that they are properly configured to reflect the use of digital or analog inputs, and the surround mode specifics. Remember that since the DCR600 memorizes the settings for each input individually, you will need to make these adjustments for each input used. However, once they are made, further adjustment is only required when system components are changed.

Once you have completed the settings for the first input, many settings may be duplicated for the remaining inputs. Remember that once the settings are made for one input, they must be made for all other input sources in your system.

Memory Backup

This product is equipped with a memory backup system that preserves the system configuration information and tuner presets if the unit is accidentally unplugged or subjected to a power outage. This memory will last for approximately two weeks, after which time all information must be reentered.

Configuring the Speakers

The following instructions are to be followed only if the DCR600 is not used with JBL SCS135 or SCS135S, or if speaker settings have been accidently altered from the default settings, which are SMALL for all positions with SUB-WOOFER ON. Otherwise go to the Output Level Adjustments section on page 39. For each of these settings use the LARGE setting if the speakers for a particular position are traditional full-range loudspeakers that are capable of reproducing sounds below 100Hz. Use the SMALL setting for smaller, frequency-limited satellite speakers that do not reproduce sounds below 100Hz. Note that when "small" speakers are used, a subwoofer is required to reproduce low-frequency sounds. Remember that the "large" and "small" descriptions do not refer to the actual physical size of the speakers, but their ability to reproduce low-frequency sounds. If you are in doubt as to which category describes your speakers, consult the specifications in the speakers' owner's manual, or ask your dealer.

With the DCR600 turned on, follow these steps to configure the speakers:

1. Put the DCR600 in the Dolby Pro Logic mode by pressing the **Surround Mode Selector** 7 on the front panel or by pressing the **Surround Mode Selector** 20 on the remote, until PRO LOGIC appears in the **Main Information Display** W and the **PRO LOGIC Indicator** F lights.

2. Press the **Speaker Button** 27 on the front panel. The words FNT SPEAKER will appear in the **Main Information Display** W.

3. Press the **Set Button** 28 21.

4. Press the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel until either LARGE or SMALL appears, matching the type of speakers you have at the left-front and right-front positions, as described by the definitions shown in the preceding section.

   When SMALL is selected, low-frequency sounds will be sent to the subwoofer output only. Note that if you choose this option, and there is no subwoofer connected, you will not hear any low-frequency sounds from the front channels.

   When LARGE is selected, a full-range output will be sent to the front-left and front-right outputs, and NO low-frequency signals will be sent to the subwoofer output.

5. When you have completed your selection for the front channel, press the **Set Button** 28 21, and then press the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel to change the display to CEN SPEAKER.

6. Press the **Set Button** 28 21 again, and use the ▲/▼ **Buttons** 25 31 on the remote, or the **Selector Buttons** 5 on the front panel, to select the option that best describes your system, based on the speaker definitions shown in the preceding section.

   When CEN SMALL is selected, low-frequency center-channel sounds will be sent to the subwoofer output only. Note that if you choose this option and there is no subwoofer connected, you will not hear any low-frequency sounds from the center-channel speaker.

   When CEN LARGE is selected, a full-range output will be sent to the center-speaker output, and NO center-channel signal will be sent to the subwoofer output.

   When CEN NONE is selected, no signals will be sent to the center-channel output. The receiver will operate in a "phantom" center-channel mode and center-channel information will be sent to the left- and right-front channel outputs.

7. When you have completed your selection for the center channel, press the **Set Button** 28 21, and then press the ◄/► **Buttons** 27 29 on the remote or the **Selector Buttons** 5 on the front panel to change the display to SUR SPEAKER.

8. Press the **Set Button** 28 21 again, and then use the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel to select the option that best describes your system, based on the speaker definitions shown in the preceding section.

   When SUR SMALL is selected, low-frequency surround-channel sounds will be sent to the subwoofer output only. Note that if you choose this option and there is no subwoofer connected, you will not hear any low-frequency sounds from the surround speaker.

   When SUR LARGE is selected, a full-range output will be sent to the surround-channel outputs, and NO surround-channel signals will be sent to the subwoofer output.

   When SUR NONE is selected, surround-sound information will be split between the front-left and front-right outputs. Note that for optimal performance when no surround speakers are in use, the Dolby 3 Stereo mode should be used instead of Dolby Pro Logic.

9. When you have completed your selection for the surround channel, press the **Set Button** 28 21, and then press the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel to change the display to S-W SPEAKER.

10. Press the **Set Button** 28 21, and then press the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel to select the option that best describes your system.

The choices available for the subwoofer position will depend on the settings for the other speakers, particularly the front left/right positions.

If the front left/right speakers are set to SMALL, the subwoofer will automatically be set to SUB, which is the "on" position.

If the front left/right speakers are set to LARGE, three options are available:

- If no subwoofer is connected to the DCR600, press the ▲/▼ **Buttons** 25 31 on the remote so that SUB NONE appears in the **Main Information Display** W. When this option is selected, all bass information will be routed to the front left/right "main" speakers.

- If a subwoofer is connected to the DCR600, you have the option to have the front left/right "main" speakers reproduce bass frequencies at all times, and have the subwoofer operate only when the DCR600 is being used with a digital source that contains a dedicated Low-Frequency Effects, or LFE, soundtrack. This allows you to use both your main and subwoofer speakers to take advantage of the special bass created for certain movies. Press ▲/▼ **Buttons** 25 31 on the remote so that SUB (LFE) appears in the **Main Information Display** W.

- If a subwoofer is connected and you wish to use it for bass reproduction in conjunction with the main front left/right speakers, regardless of the type of program source or surround mode you are listening to, press the ▲/▼ **Buttons** 25 31 on the remote so that SUB L/R+LFE appears in the **Main Information Display** W. When this option is selected, a "complete" feed will be sent to the front left/right "main" speakers, and the subwoofer will receive the bass frequencies under the frequency selected in the next option setting on this menu, as described below.

11. When all speaker selections have been made, press the **Set Button** 28 21 to return to normal operation.

Adjusting the Output Levels

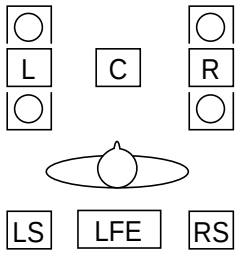
Output level adjustment is a key part of the configuration process for any surround-sound product. It is particularly important for a Dolby Digital receiver such as the DCR600, as correct outputs will ensure that you hear soundtracks in their proper place with the proper directionality and intensity.

IMPORTANT NOTE: Listeners are often confused about the operation of the surround channels. While some assume that sound should always be coming from each speaker, most of the time there will be little or no sound in the surround channels. This is because they are only used when a movie director or sound mixer specifically places sound there to create ambience or a special effect, or to continue action from the front of the room to the rear. When the output levels are properly set, it is normal for surround speakers to operate only occasionally. Artificially increasing the volume to the rear speakers may destroy the illusion of an enveloping sound field that duplicates the way you hear sound in a movie theater or concert hall.

Before beginning the adjustment process, make certain that all speaker connections have been properly made. The system volume should be set to the level that you will use during a typical listening session. Finally, make certain that the **Balance Control** 18 is set to the center "12 o'clock" position.

To assist in making speaker configuration settings, the icons in the **Speaker/Channel Input Indicators** O change as the speaker type is selected at each position. When only the center icon box containing the abbreviation for the speaker position is lit, the speaker is set for "small." When the inner box and the two outer boxes with circles inside them are lit, the speaker is set for "large." When no indicator appears at a speaker location, that position is set for "none" or "no" speaker.

For example, in the following figure, the left front and right front speakers are set for LARGE, the center, left surround (LS) and right surround (RS) speakers are set for SMALL, and a subwoofer is set, as shown by the box with the abbreviation "LFE", which stands for "low-frequency effects."



To adjust and calibrate the output levels, follow these steps. For accurate calibration, it is a good idea to make these adjustments while seated in your favorite listening position:

1. Put the DCR600 in the Dolby Pro Logic mode by pressing the **Surround Mode Selector** 7 on the front panel, or by pressing the **Surround Mode Selector** 20 on the remote, until PRO LOGIC appears in the **Main Information Display** W and the **PRO LOGIC Indicator** F lights up.

2. Press the **Test Button** 17 on the remote. T-T FL 0dB will appear in the **Main Information Display** W and the letters FL will flash once each second.

3. The test noise will immediately begin to circulate in the speakers in a clockwise rotation, pausing at each position for three seconds. As the test noise rotates, the speaker position will be shown in the **Main Information Display** W.

NOTE: This is a good time to verify that the speakers have been properly connected. As the test noise circulates, listen to make certain that the sound comes from the speaker position shown in the Main Information Display. If the sound from a speaker location does NOT match the position indicated in the display, turn the DCR600 off using the **Main Power Switch** 1 and check the speaker wiring to make certain that each speaker is connected to the correct output terminal.

4. After checking for speaker placement, let the test noise circulate, and listen to see which channels sound louder than the others. Using the front left (FL in the display) speaker as a reference, press the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel on each channel to begin to bring them to the same level. Note that when one of the buttons is pushed, the test noise circulation will pause on the channel being adjusted to give you time to make the adjustment. When you release the button, the circulation will resume after 15 seconds.

5. Continue to adjust the individual speakers until they all have the same volume. Note that adjustments should be made with the **▲/▼ Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel only, NOT the main volume controls. Then press the **Set Button** 28 21 to memorize the change. If you are using a sound pressure (SPL) meter for precise level adjustment, set the volume so that the meter reads 75dB, C-Weighting Slow.

NOTE: The subwoofer output level is not adjustable using the test tone. To change the subwoofer level, press the **Channel Select Button** 25 while playing a favorite selection, and use the **▲/▼ Buttons** 25 31 to adjust the channel outputs to a desired level, and the **Set Button** 28 to memorize the change.

6. When you have adjusted the outputs so that all channels have the same level, press the **Test Button** 8 on the remote to complete the adjustment.

NOTE: The output levels may be separately trimmed for each digital and analog surround mode. If you wish to have different trim levels for a specific mode, select that mode and follow the instructions in the steps shown earlier.

Setting Delay Times

Due to the different distances between the front-channel speakers and the listening position compared to the surround speakers and the listening position, the amount of time it takes for sound to reach your ears from the front or surround speakers is different. You may compensate for this difference through the use of the delay settings to adjust the timing to match the specific speaker placement and acoustic conditions in your listening room or home theater.

The factory setting is appropriate for most rooms, but some installations create an uncommon distance between the front and surround speakers that may cause the arrival of front-channel sounds to become disconnected from surround-channel sounds.

To resynchronize the front and surround channels, follow these steps:

1. Measure the distance from the listening/viewing position to the front speakers.

2. Measure the distance from the listening/viewing position to the surround speakers.

3. Subtract the distance to the surround speakers from the distance to the front speakers.

a. When setting the delay time for the Dolby Digital surround modes, the optimal delay time is the result of that subtraction. For example, if the front speakers are ten feet away and the surround speakers are five feet away, the optimal delay time is figured as 10–5=5. Thus, in this example, the delay time for Dolby Digital should be set at five milliseconds.

b. When setting the delay time for the Pro Logic mode, take the result of the subtraction and add 15 to obtain the optimal delay time. For example, if the front speakers are ten feet away and the surround speakers are five feet away, the optimal delay time is figured as 10–5+15=20. Thus, in this example, the Pro Logic delay should be set at twenty milliseconds.

NOTE: The Theater and Hall modes use a fixed, nonadjustable delay time.

The Dolby Digital mode also includes a separate setting for the center-channel delay mode, since the discrete nature of these signals makes the location of the center-channel speaker more critical. To calculate the delay for the center channel, measure the distance from the preferred listening position in the center of the room to both the center-channel speaker and either the left or right speaker.

If the distances are equal, no further adjustment is required and the center delay should be set to zero. If the distance to the front speakers is greater than the distance to the center speaker, you may wish to reposition the speakers by moving the front-left and front-right speakers closer to the listening position or the center speaker further away from the listening position.

If repositioning of the speakers is not possible, adjust the center delay time, adding one millisecond of center-channel delay for every foot closer to the listening position the center speaker is than the front speakers. For example, if the front-left and front-right speakers are each 10 feet from the listening position and the center-channel speaker is 8 feet away, the delay is figured as 10–8=2, suggesting an optimal center delay of 2 milliseconds.

To set the delay times, follow these steps:

1. Put the DCR600 in the Dolby Pro Logic mode by pressing the **Surround Mode Selector** 7 on the front panel or by pressing the **Surround Mode Selector** 20 on the remote, until PRO LOGIC appears in the **Main Information Display** W and the **PRO LOGIC Indicator** F lights up.

2. Press the **Delay Button** 32 23 on the remote or front panel. The words S DELAY TIME will appear in the **Main Information Display** W.

3. Press the **Set Button** 28 21.

4. Adjust the delay time by pressing the **▲/▼ Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel until the delay time figure calculated using the formula entered above appears in the display.

5. If only analog sources will be used, no adjustment is needed for the center-channel delay. In that case, press the **Set Button** 28 21 to enter the surround delay settings into the DCR600's memory. However, if you will be using digital sources and the calculations outlined above indicate that the center-channel delay requires an adjustment, continue with the following steps.

6. Before setting the center-channel delay time, make certain that a digital source such as the DVD600 has been selected. If a digital source is playing, **COAXIAL** E or **OPTICAL** B will appear in the **Main Information Display** 24. If a digital source is already connected and playing, press the **Delay Button** 22 32 and then the **▲/▼ Buttons** on the remote 25 31 or the front panel **Selector Buttons** 5 until the words C DELAY TIME

appear in the **Main Information Display** W and proceed to Step 10. If a digital source is not playing, follow Steps 7 through 10.

7. Press the **Set Button** 28 21.

8. Select the Dolby Digital mode either by pressing the front panel **Surround Mode Selector** 7 or by pressing the **Surround Mode Selector** 20 on the remote until DOLBY DIG appears in the **Main Information Display** W.

9. Press the **Delay Button** 22 32 on the remote or front panel. The words S DELAY TIME appear in the **Main Information Display** W.

10. Press the ▲/▼ **Buttons** 25 31 on the remote once, so that C DELAY TIME appears in the **Main Information Display** W or in the on-screen display.

11. Press the **Set Button** 28 21.

12. Press the ▲/▼ **Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel until the desired delay time for the center channel appears in the display.

13. Press the **Set Button** 28 21 to enter the setting into the DCR600's memory.

REMOTE CONTROL FUNCTIONS

The JBL Cinema ProPack 600 is equipped with a powerful remote control that will control the functions of not only the DCR600 receiver and DVD600 DVD changer, but also most popular brands of audio and video equipment, including CD players, cassette decks, TV sets, cable boxes, VCRs, satellite receivers and other home-theater equipment. Once the remote is programmed with the codes for the products you own, it is possible to eliminate most other remotes and replace them with the convenience of a single, universal remote control.

Programming the Remote

As shipped from the factory, the remote is fully programmed for all DCR600, DVD600 and JBL BassQ™ digital bass correction functions. In addition, by following one of the methods below, you may program the remote to operate a wide range of devices from other manufacturers.

We suggest that you refrain from reprogramming the main, DVD and VID 4 functions. Should you reprogram them inadvertently, you may reprogram each of these buttons individually to code 001 to reset it without disturbing other functions programmed into the remote.

Entering Product Codes

This method is the easiest way to program your remote to work with different products.

1. Use the tables on pages 27 to 36 to determine the three-digit code or codes that match both the product type (e.g., VCR, TV) and the specific brand name. If there is more than one number for a brand, make note of the different choices.

2. Turn on the unit you wish to program into the remote.

3. Press and hold both the **Input Selector** ❾–⓮ for the product you wish to control (e.g., VCR, TV) and the **Mute Button** ❸ at the same time. When the **Program Indicator** lights and begins flashing, release the buttons. The light under the Input Selector key will appear. It is important that you begin the next step within 20 seconds.

4. Point the remote towards the unit to be programmed, and enter the first three-digit code number using the **Numeric Keys** ㉝–㊵, ㊷ ㊸. If the unit turns off, the correct code has been entered. Press the **Input Selector** ❾–⓮ again, and note that the red light will flash three times before going dark to confirm the entry.

5. If the device to be programmed in does NOT turn off, continue to enter three-digit code numbers until the equipment turns off. At this point, the correct code has been entered. Press the **Input Selector** ❾–⓮ again and note that the red light under the **Input Selector** will flash three times before going dark to confirm the entry.

6. Try all of the functions on the remote to make certain that the product operates properly. Keep in mind that many manufacturers use a number of different combinations of codes, so it is a good idea to make certain that not only the power control, but the volume, channel and transport controls work as they should. If all functions do not work properly, you may need to use a different remote code.

7. If a code cannot be entered to turn the unit off, if the code for your product does not appear in the tables in this manual, or if not all functions operate properly, try programming the remote with the Auto Search Method.

Auto-Searching for Product Codes

If the unit you wish to include in the remote is not listed in the code tables in this manual or if the code does not seem to operate properly, you may wish to program the correct code using the Auto Search method that follows:

1. Turn on the unit that you wish to include in the remote.

2. Press the **Input Selector** ❾–⓮ for the type of product to be entered (e.g., VCR, TV) and the **Mute Button** ❸ at the same time. Hold both buttons until the red light under the **Input Selector** ❾–⓮ stays lit. Note that the next step must take place while the red light is on, and it must begin within 20 seconds after the light appears.

3. Point the remote towards the unit to be programmed, and press either the ▲ or ▼ **Button** ㉕ ㉛. Each press will send out a series of codes from the remote's built-in database. When the unit being programmed turns off, release the ▲ or ▼ **Button** ㉕ ㉛, as that is your indication that the correct code is in use.

4. Press the **Input Selector** ❾–⓮, and note that the red light under the Input Selector will flash three times before going dark to confirm the entry.

5. Try all of the functions on the remote to make certain that the product operates. Keep in mind that many manufacturers use a number of different combinations of codes, and it is a good idea to make certain that not only the power control works, but also that the volume, channel and transport controls operate, as appropriate. If all functions do not work properly, you may need to Auto-Search for a different code, or enter a code via the Direct Code Entry method.

Reading Back the Programmed Code

When the code has been entered using the Auto Search method, it is always a good idea to find out the exact code so that it may be easily reentered if necessary. You may also read the codes to verify which device has been programmed to a specific Control Selector button.

1. Press and hold both the **Input Selector** ❾–⓮ for the device for which you wish to find the code and the **Mute Button** ❸ at the same time. Note that the **Program Indicator** will light. Release the buttons and begin the next step within 20 seconds.

2. Press the **Set Button** ㉘. The **Program Indicator** will then blink in a sequence that corresponds to the three-digit code, with a one-second pause between each digit. Count the number of blinks between each pause to determine the digit of the code. One blink is the number 1, two blinks is the number 2, and so forth. Ten blinks are used to indicate a "0."

Example: One blink, followed by a one-second pause, followed by six blinks, followed by a one-second pause, followed by ten blinks indicates that the code has been set to 160.

For future reference, enter the Setup Codes for the equipment in your system here:

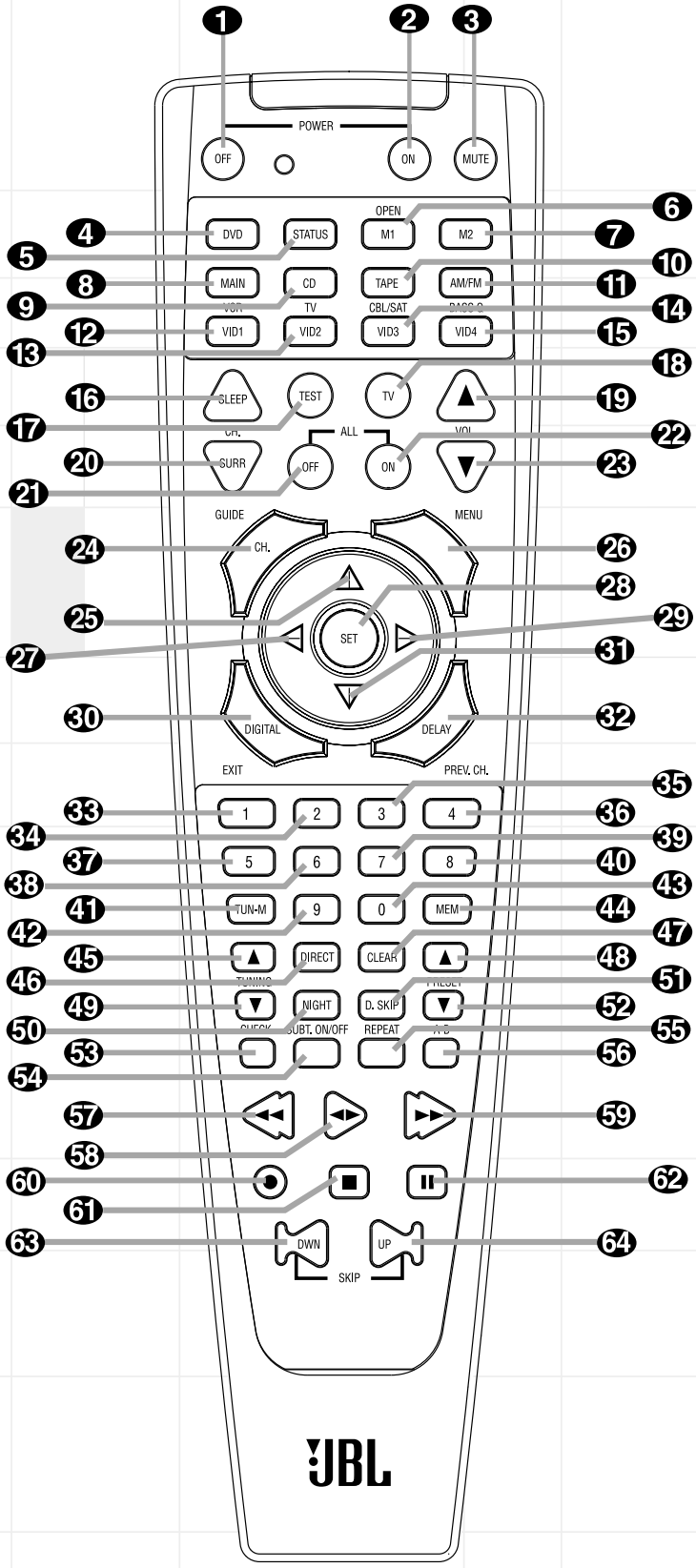
CD _____

VID1/VCR _____ **VID2/TV** _____

VID3/CBL/SAT _____

VID4/BASSQ _____

TAPE _____



Programming Macros

Macros enable you to easily repeat frequently used combinations of commands with the press of a single button on the remote control. Once programmed, a macro will send out up to 19 different remote codes in a predetermined sequential order, enabling you to automate the process of turning on your system, changing devices, or other common tasks. The remote can store up to three separate macro command sequences: one that is associated with the **Power On Button** ❷, and two more that are accessed by pressing the **Macro Buttons** ❻❼.

The DCR600 remote also features two pre-programmed functions, **ALL OFF** ㉑ and **ALL ON** ㉒, that turn all eight programmed devices off or on when the appropriate key is pressed.

1. Press the **Mute Button** ❸ and the **Macro Buttons** ❻❼ to be programmed or the **Power On Button** ❷ at the same time. Note that an **Input Selector** ❹, ❽–⓯ will light red, and the **Program Indicator** will flash.

2. Enter the steps for the macro sequence by pressing the button for the actual command step. Although the macro may contain up to 19 steps, each button press, including those used to change devices, counts as a step. The **Program Indicator** will flash to confirm each button press as you enter commands.

NOTE: While entering commands for Power On/Off of any device during a macro sequence, press the **Mute Button** ❸. DO NOT press the actual Power button.

3. When all the steps have been entered, press the **Sleep Button** ⓰ to enter the commands. The red light under the **Input Selectors** ❹, ❽–⓯ will blink and then turn off.

Example: To program the Macro 1 button so that it turns on only the DCR600, TV and a Cable Box, follow these steps:

- Press the **Macro 1** ❻ and **Mute** ❸ buttons at the same time and then release them.
- Note that the **Program Indicator** will flash.
- Press the **MAIN Selector** ❽.

- Press the **Mute Button** ❸ to store the DCR600's Power On command.
- Press the **VID 2 Input Selector Button** ⓭ to indicate the next command is for "TV Power On."
- Press the **Mute Button** ❸ to store the TV Power On command.
- Press the **VID 3 Input Selector Button** ⓮ to indicate the next command is for "Cable Power On."
- Press the **Mute Button** ❸ to store the Cable Power On command.
- Press the **Sleep Button** ⓰ to complete the process and store the macro sequence.

After following these steps, each time you press the **Macro 1 Button** ❻, the remote will send the Power On/Off command to only those devices.

Erasing Macro Commands

To remove the commands that have been programmed into one of the Macro buttons, follow these steps:

1. Press the **Mute Button** ❸ and the **Macro Buttons** ❷❻❼ that contain the commands you wish to erase.
2. Note that the **Program Indicator** will flash, and the LED under the **MAIN Selector** ❽ will turn red.
3. Within ten seconds, press the **Surround Mode Selector Button** ⓴.
4. The red LED under the **MAIN Selector** ❽ will go out, and the **Program Indicator** will flash three times before it goes out.
5. When the **Program Indicator** goes out, the Macro has been erased.

Device Functions

Once the remote has been programmed for the codes of other devices, press the appropriate **Input Selector** ❾–⓯ to change the remote from controlling the DCR600 and DVD600 to controlling the additional product. When you press any one of the selectors, it will briefly flash in red to indicate that you have changed the device being controlled.

When operating a device other than the DCR600 or DVD600, the controls may not correspond exactly to the function printed on the remote or button. Some commands, such as the volume control, are the same as they are with the DCR600. Other buttons will change their function so that they correspond to a secondary label on the remote. For example, the **Sleep** ⓰ and **Surround Mode Selector** ⓴ buttons also function as the Channel Up and Channel Down buttons when operating most TV sets, VCRs or cable boxes. The Channel Up/Down indication is printed directly on the remote. For many standard CD players, cassette decks, VCRs and DVD functions, the standard function icons are printed on top of the buttons.

For some products, however, the function of a particular button does not follow the command printed on the remote. In order to see which function a button controls, consult the Function List tables printed on pages 25 and 26. To use those tables, first check the type of device being controlled (e.g., TV, VCR). Next, look at the remote control diagram. Note that each button has a number on it.

To find out what function a particular button has for a specific device, find the button number on the Function List and then look in the column for the device you are controlling. For example, button number 7 is the Macro 2 button for the DCR600, but it is the Replay button for CD players and receivers. Button number 32 is the Delay button for the DCR600, but the + Time button for CD players, and Preview Channel button for many TVs, cable television boxes amd satellite services.

Notes on Using the Remote With Other Devices

- Manufacturers may use different code sets for the same product category. For that reason, it is important that you check to see whether the code set you have entered operates as many controls as possible. If it appears that only a few functions operate, check to see whether another code set will work with more buttons.
- When a button is pressed on the remote, the red light under the **Input Selector** ❹, ❽–⓯ for the product being operated should flash briefly. If the Device Control Selector flashes for some but not all buttons for a particular product, it does NOT indicate a problem with the remote but rather that no function is programmed for the button being pushed. Consult the Function List on pages 25 and 26. Blank squares indicate that no function is programmed for that button for the corresponding device. The word "unknown" indicates that the button sends an IR signal to the device but its function depends on the device's programming, and the device may not be programmed to respond at all to that button. Consult the device's owner's manual.

Volume Punch-Through

The remote may be programmed to operate the **Volume Control** ⓳㉓ and **Mute** ❸ functions of either the TV or the DCR600 in conjunction with any of the devices controlled by the remote. For example, since the DCR600 will likely be used as the sound system for TV viewing, you may wish to have the DCR600's volume activated, although the remote is set to run the TV. Either the DCR600 or TV volume control may be associated with any of the remote's devices. To program the remote for Volume Punch-Through, follow these steps:

1. Press the **Input Selector** ❾–⓯ for the unit you wish to have associated with the volume control and the **Mute Button** ❸ at the same time until the red light appears under the **Input Selector** ❾–⓯ and note that the **Program Indicator** will flash.
2. Press the **Volume Up Button** ⓳ and note that the **Program Indicator** will stop flashing and stay lit.
3. Press either the **MAIN Selector** ❽ or the **Input Selector** ❾–⓯, depending on which system's volume control you wish to have attached for the punch-through mode. The **Program Indicator** will blink three times and then go out to confirm the data entry.

Example: To have the DCR600's volume control activated even though the remote is set to control the TV, first press the **Video/TV Input Selector** ⓭ and the **Mute Button** ❸ at the same time. Next, press the **Volume Up Button** ⓳, followed by the **MAIN Selector** ❽.

NOTE: Should you wish to return the remote to the original configuration after entering a Volume Punch-Through, you will need to repeat the steps shown above. However, press the same Input Selector in Steps 1 and 3.

Remote Control Functions (Continued)

Channel Control Punch-Through

The remote may be programmed to operate so that the channel control function for either the TV, cable or satellite receiver used in your system may be used in conjunction with one of the other devices controlled by the remote. For example, while using and controlling the VCR, you may wish to change channels on a cable box or satellite receiver without having to change the device selected by the DCR600 or the remote. To program the remote for Channel Control Punch-Through, follow these steps:

1. Press the **Input Selector Button** 9–15 for the device with which you wish to have the channel control associated and the **Mute Button** 3 at the same time until the red light appears under the **Input Selector** 9–15 and the **Program Indicator** flashes.

2. Press the **Volume Down Button** 23. The **Program Indicator** will stop flashing and stay lit.

3. Press and release the **Input Selector Button** 9–15 for the device that will be used to change the channels. The **Program Indicator** will blink three times and then go out to confirm the data entry.

   Example: To control the channels using your cable box or satellite receiver while the remote is set to control the VCR, first press the **VID 1/VCR Input Selector Button** 13 and the **Mute Button** 3 at the same time. Next, release them and press the **Volume Down Button** 23, followed by the **VID 3/ CATV/SAT Input Selector Button** 14.

NOTE: To remove the Channel Control Punch-Through and return the remote to its original configuration, repeat the steps shown in the example above. However, press the **VID 1/VCR Input Selector** 13 in Steps 1 and 3.

Transport Control Punch-Through

The remote may be programmed to operate so that the **Transport Control** 57 –62 functions (Play, Stop, Fast Forward, Rewind, Pause and Record) for a VCR, DVD or CD will operate in conjunction with one of the other devices controlled by the remote. For example, while using and controlling the TV, you may wish to start or stop your VCR or DVD without having to change the device selected by the DCR600 or the remote. To program the remote for Transport Control Punch-Through, follow these steps:

1. Press the **Input Selector** 9–15 for the device with which you wish to have the channel control associated and the **Mute Button** 3 at the same time until the red light appears under the **Input Selector** 9–15 and the **Program Indicator** flashes.

2. Press the **Play Button** 58. The **Program Indicator** will stop flashing and stay lit.

3. Press and release the **Input Selector Button** 9–15 for the device that will be used to change the channels. The **Program Indicator** will blink three times and then go out to confirm the data entry.

   Example: To control the transport of a DVD player while the remote is set to control the TV, first press the **VID 2/TV Input Selector Button** 13 and the **Mute Button** 3 at the same time. Next, release them and press the **Play Button** 58, followed by the **DVD Input Selector Button** 4.

NOTE: To remove the Channel Control Punch-Through and return the remote to its original configuration, repeat the steps shown in the example above. However, press the **VID 2/TV Input Selector** 13 in Steps 1 and 3.

NOTE: Before programming the remote for Volume, Channel or Transport Punch-Through, make certain that any programming needed to assign the remote to control the specific TV, CD, DVD, cable or satellite receivers has been completed.

Reassigning Devices

Although each **Input Selector** 9–14 is normally assigned to the category of product shown on the remote, it is possible to reassign one of these buttons to operate a second device of another type. For example, if you have two VCRs but no satellite receiver, you may program the "SAT" button to operate a second VCR. Before following the normal programming steps for either three-digit entry or Auto Search code entry, you must first reassign the button with the following steps:

1. Press the **Input Selector** 9–14 you wish to reassign and the **Mute Button** 3 at the same time until the red light appears under the **Input Selector** 9–14 and the **Program Indicator** flashes.

2. Press the **Input Selector** 9–14 for the device you wish to program into the reassigned button.

3. Enter the three-digit code for the specific model you wish the reassigned button to operate.

4. Press the same **Input Selector** 9–14 pressed in Step 1 once again to store the selection. The red LED under the reassigned Input Selector will flash three times and then go out.

   Example: To use the CBL/SAT button to operate a second VCR, first press the **CBL/SAT Input Selector** 14 and the **Mute Button** 3 at the same time until the red light glows under the **CBL/SAT** 14 button. Press the **VCR** 12 button, followed by the three-digit code for the specific model you wish to control. Finally, press the **CBL/SAT** 14 button again.

Resetting the Remote Memory

As you add components to your home-theater system, occasionally you may wish to totally reprogram the remote control without the confusion of any commands, macros or "Punch-Through" programming that you may have done. To do this, it is possible to reset the remote to the original factory defaults and command codes by following these steps. Note, however, that once the remote is reset, all commands or codes that you have entered will be erased and will need to be reentered:

1. Press any of the **Input Selector Button** 20 8, 9–15 and the **"0" Button** 43 at the same time until the **Program Indicator** begins to flash.

2. Press the **"3" Button** 35 three times.

3. The red LED under the **Input Selector** 8, 9–15 will go out and the **Program Indicator** will stop flashing and stay lit.

4. The **Program Indicator** will remain lit until the remote is reset. Note that this may take a while, depending on how many commands are in the memory and need to be erased.

5. When the **Program Indicator** goes out, the remote has been reset to the factory settings.

CONFIGURING THE DVD600 DVD CHANGER
DVD Compatibility & Terminology

The DVD600 is more than a DVD player; it will play the following disc formats:

- Both 5-inch (12cm) and 3-inch (8cm) discs
- CD audio discs
- DTS audio discs
- CD-RW audio discs
- DVD movie discs
- VCD (video CD) discs

However, it will NOT play the following:

- DVD discs with a Region Code other than the one for which the player is set
- DVD discs with PAL format video
- DVD-ROM data discs
- DVD-RAM discs
- CD-R discs
- CD-I discs
- CD-G discs
- SVCD discs
- Photo CD discs
- MP3 audio discs

NOTE: Due to differences in the format of certain discs, it is possible that some discs may include a mix of features that are not compatible with the DVD600. Similarly, although the DVD600 is capable of a wide range of features, not all discs include every capability of the DVD system. For example, although the DVD600 is compatible with multi-angle discs, that feature is only possible when the disc is specially encoded for multiple-angle play. In addition, the DVD600 is capable of playing back both Dolby Digital and DTS soundtracks, but the number and types of tracks available will vary from disc to disc. To make certain that a specific feature or soundtrack option is available, please check the options noted on the disc jacket.

- Playback of DTS audio discs requires connection to a processor or receiver with a DTS decoder, such as the DCR600.
- Playback capability for CD-RW discs may vary due to variations in the quality of the CD-RW disc and the recorder used to create the disc.

Since they share some of the characteristics and technology of CD players, many of the terms and operational concepts used in a DVD player are similar to what you may be familiar with from CD players and changers, or older video disc formats such as Laser Disc. However, if this is your first DVD product, some of the terms used to describe the features of a DVD player may be unfamiliar. The following explanations should solve some of the mysteries of DVD, and help you to enjoy all the power and flexibility of the DVD format and the DVD.

Aspect Ratio: This is a description of the width of a video image in relation to its height. A conventional video screen is four units wide for every three units of height, making it almost square. Newer, wide aspect ratio video displays are 16 units wide for every nine units of height, making them more like the screen in a movie theater. The program material on a DVD may be recorded in either format and, in addition, you may configure the DVD to play back in either format, depending on the features recorded on a disc.

Chapter: DVD programs are divided into chapters and titles. Chapters are the subsections programmed into a single title on a disc. Chapters may be compared to the individual tracks on an audio CD. Press the Menu button to see a listing of the chapters on a disc.

Component Video: This is a new form of video signal which eliminates many of the artifacts of traditional composite-video signals by splitting the signal into a separate luminance channel and two color-difference signals. With a component-video connection, you will see greater picture resolution and eliminate many picture imperfections, such as the moiré patterns often seen on checked patterned cloths. However, in order to benefit from component video, you must have a video display with Y/Pr/Pb component-video inputs. Do not connect the component-video outputs of the DVD600 to the standard composite or S-Video inputs of a TV or recorder.

Title: For a DVD, a title is defined as an entire movie or program. There may be as many chapters within a title as the producers decide to include. Most discs include only one title, but some may have more than one, to give you a "Double Feature" presentation. Press the Title button to see a listing of the titles on a disc. When a disc has only one title, pressing the title button may show a list of the chapters.

Multiple Angle: DVDs have the capability to show up to four different views of the same scene in a program. When a disc is encoded with multiple-angle information, pressing the Angle button will enable you to switch between these different views. Note that, at present, few discs take advantage of this capability and, when they do, the multiple-angle technology may only be present for short periods of time within the disc. Producers will usually insert some sort of icon or graphic in the picture to alert you to the availability of multiple-angle scenes.

Reading: This is a message that you will see when you first press the Play button. It refers to the fact that the player must first examine the contents of the disc to see whether it is a CD or DVD, and then extract the information about the type of material on the disc, such as languages, aspect ratios, subtitles, number of titles and more. The slight delay while the contents of the disc are read is normal.

Resume: The operation of the Stop button on the DVD600 works differently from what you are used to on CD or CD players. On a traditional CD player, when you press the Stop button, the unit does just that: it stops playback. On a CD player, when you press the Start button again, the disc starts from the beginning. With the DVD600, however, you have two options when playing DVD discs. Pressing Stop once will stop the playback, but it actually puts the unit in the Resume mode. This means that you can turn the machine off and, when you press play the next time, the disc will resume or continue from the point on the disc where the Stop button was pressed. This is helpful if you are watching a movie and must interrupt your viewing session but wish to pick up where you left off. Pressing the Stop button twice will stop the machine in a traditional manner and, when the disc is played again, it will start from the beginning.

The DVD600 is turned on in two steps. First, press the **Power Switch** 1D on the front panel until it latches and the **Status Indicator** 2D lights. Then, either press the **Open/Close Button** 6D or **Play Button** 10D on the front panel, or use the remote control to select **DVD** 4 and turn on the unit 2.

Using the Remote Control

To access the Setup Menu, press the **Menu Button** 26 on the remote. The Setup Menu will appear on the video display screen as shown in Figure 1. The left side of the screen will show the various options, and the box on the right side of the screen will show the current defaults.

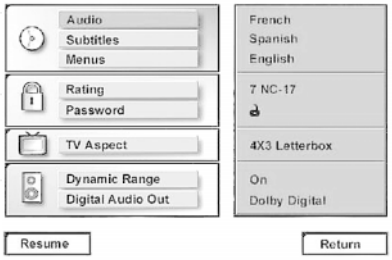


Figure 1

To navigate through the settings on the screen, use the ▲/▼ **Buttons** 25 31 to scroll up or down through the list of settings or the list of options. Press the ◀/▶ **Buttons** 27 29 to move back and forth between the list of settings and the list of options for those settings. To choose a specific option, use the ▲/▼ **Buttons** 25 31 until it is highlighted. Press the **Enter Button** 28 to select the choice. When a selection is made, you may confirm the choice by checking to see that a black dot fills the "radio button" circle next to the choice. This filled circle, not the highlighted option, is the active choice.

Selecting Audio Output Languages

The Audio Language option sets the default choice for the language that will be played from a DVD disc.

To select the language default, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. Audio Language Selection is the first option, so it will automatically be highlighted in dark blue when the Setup Menu is displayed.

To change the default language, press the ▶ **Button** 29 and note that the list of system defaults will be replaced with a list of the available options, as shown in Figure 2. The current language choice will be indicated by a filled-in circle on the list on the right side of the screen.

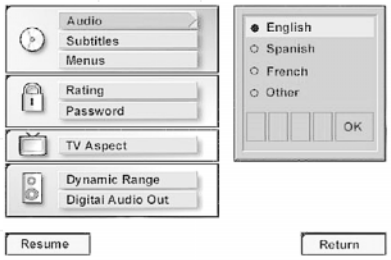


Figure 2

To change the default setting, press the ▲/▼ **Buttons** 25 31 until the desired choice is highlighted, and then press the **Enter Button** 28. Note that the circle for your choice will fill in, and the menu will return to the default listings.

If you wish to change the default to a language other than English, Spanish or French, press the ▲/▼ **Buttons** 25 31 until the "Other" line on the bottom is highlighted. Consult the Language Codes list on page 64 for the desired language. Press the **Enter Button** 28, and then enter the four-digit code from the list using the **Numeric Keys** 33 – 40, 42 43. Although your selection will be entered, the word "Other" will appear on the default list.

Note that when a default language is selected, it will be used whenever that language is present on the DVD disc being played. However, when that language is not present, the language used will be the one preprogrammed into the disc itself. (Typically, that default will be English for discs sold in Region 1, but the selection will vary at the discretion of the disc's producer.)

Although the default will set the language that will be used when a disc is first put into play, the language may easily be changed at any time by using the **Audio Button** 20.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Selecting Subtitle Languages

The Subtitle Language option sets the default choice for the language that will be displayed when subtitles are turned on during DVD playback.

To select the Subtitle Language default, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Subtitle Language option is highlighted.

To change the default Subtitle Language, press the ▶ **Button** 29 and note that the list of system defaults will be replaced with a list of the available options, as shown in Figure 3. The current subtitle language choice will be indicated by a filled-in circle in the list on the right side of the screen.

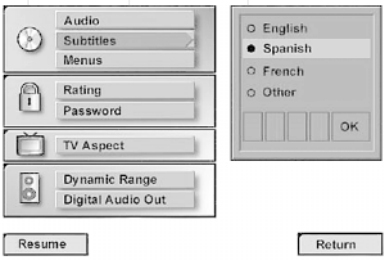


Figure 3

To change the default setting, press the ▲/▼ **Buttons** 25 31 until the desired choice is highlighted, and then press the **Enter Button** 28. Note that the circle for your choice will fill in, and the menu will return to the default listings.

If you wish to change the subtitle default to a language other than English, Spanish or French, press the ▲/▼ **Buttons** 25 31 until the "Other" line on the bottom is highlighted. Consult the Language Codes list on page 64 for the desired language. Press the **Enter Button** 28, and then enter the four-digit code from the list using the **Numeric Keys** 33 – 40, 42 43. Although your selection will be entered, the word "Other" will appear on the default list.

Note that when a default subtitle language is selected, it will be used whenever that language is present on the DVD disc being played. However, when that language is not present, the language used will be the one preprogrammed into the disc itself. (Typically, that default will be English for discs sold in Region 1, but the selection will vary at the discretion of each disc's producer.)

Although the default will set the language that will be used when the disc is first put into play, the language may easily be changed at any time by using the **Subtitle Button** 30.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Selecting Menu Languages

The Menu Language option sets the default choice for the language that will be used for the DVD600's own on-screen menu displays. This default setting DOES NOT impact the playback of DVD discs.

To select the Menu Language default, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Menu's option is highlighted.

To change the default Menu Language, press the ▶ **Button** 29 and note that the list of system defaults will be replaced with a list of the available options, as shown in Figure 4. The current language choice will be indicated by a filled-in circle in the list on the right side of the screen.

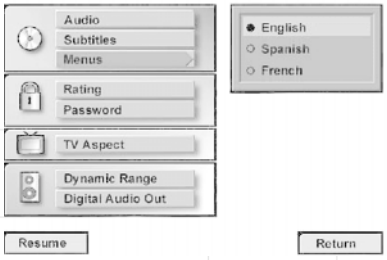


Figure 4

To change the default setting, press the ▲/▼ **Buttons** 25 31 until the desired choice is highlighted, and then press the **Enter Button** 28. Note that the circle for your choice will fill in, and the menu will return to the default listings.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Parental Lock and Passwords

The DVD600 enables you to control the discs that are viewed by setting a ratings level. When a disc that's ready to play has a rating level greater than the default, it will not play. To further protect against unauthorized viewing of restricted discs, the ratings-level option may be locked so that only authorized persons (such as a parent) may change the rating level after a password is entered.

The ratings system is dependent on information encoded into the DVD disc being played so, although most movies will carry an MPAA or other rating symbol, the disc may or may not contain that rating in its software. In addition to the five MPAA ratings of G, PG, PG-13, R and NC-17, the DVD600 will accommodate a total of eight ratings steps, as set by the creators of the DVD format. These additional steps allow for more critical control of program playback for all audiences.

To select the permitted ratings values, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Ratings option is highlighted.

To change the default Ratings setting, press the ▶ **Button** 29 and note that the list of system defaults will be replaced with a list of the program ratings as shown in Figure 5. Some ratings will be highlighted in orange, while others will be highlighted in blue. Discs with a rating in the orange color band will play without any further action by the viewer. Discs with ratings in the blue band will only play after a password is entered.

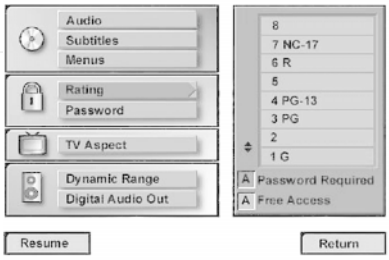


Figure 5

To change the range of ratings that may be viewed without a password, press the ▲/▼ **Buttons** 25 31 until the desired range is set, and then press the **Enter Button** 28. Note that the circle for your choice will fill in, and the menu will return to the default listings. The listing in the default settings will show the highest rated program that may be viewed without entering a password.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Password Selection and Control Lock

The DVD600's Password System is used to control viewing of restricted programs and one's capability to change the password itself. The DVD600 is shipped without a password and with the settings for the password system unlocked. The following instructions will show how to add a password and to lock the settings.

To set a password or lock the password system, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Password option is highlighted.

To enter a password, press the ▶ **Button** 29 and note that the list of system defaults will be replaced with a list of the three password options (Figure 6). To enter a password, check to make certain that the words Set Password are highlighted in light blue and then press the **Enter Button** 28. The Enter Password screen will then appear on your video display (Figure 7).

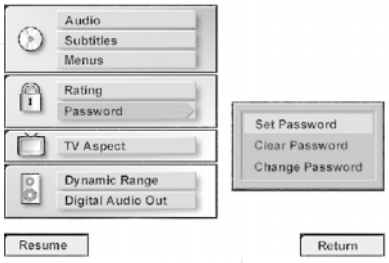


Figure 6

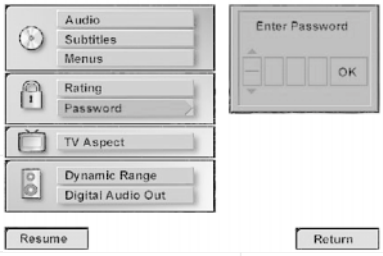


Figure 7

To enter a password, you may either enter the four-digit number directly, using the **Numeric Keys** 33–40, 42 43, or you may use the ▲/▼ **Buttons** 25 31 to select the number for a position, and then press the ▶ **Button** 29 to move to the next position. Note that as each number is entered, it will turn to a solid circle when you move to the next position to protect the password's privacy. When all four numbers of the password have been entered, press the **Enter Button** 28.

After the password has been entered once, a second set of data entry boxes will appear, asking you to confirm the entry. Using the same method described earlier, enter the password again. When all four numbers have been repeated, press the **Enter Button** 28 to set the password in the DVD600's memory. If the two passwords do not agree, an "Incorrect Password" message will appear to ask you to try entering the number again.

Once this password is entered, you will need to use this four-digit number to view a disc when the rating of the disc exceeds the settings entered in the Ratings Menu. If a password has been entered, it is also required that you change the settings range in the Ratings Menu. Finally, the password is required if you wish to unlock the system again to permit access to the Ratings Menu.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Clearing Passwords

Once a password has been entered, the system remains locked until the password is cleared. To clear a password so that the ratings may be changed or to permit any movie to be viewed regardless of ratings, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Password option is highlighted. As the system is locked, you will first be asked to enter the password previously set. Enter that password using the **Numeric Keys** 33–40, 42 43 and then press the **Enter Button** 28.

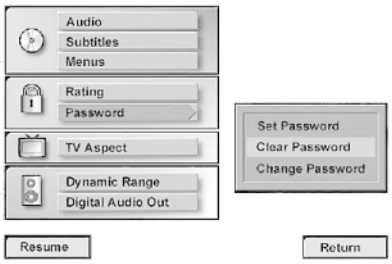


Figure 8

To clear the password lock once you have entered the correct password, press the ▼ **Button** 31 so that the words "Clear Password" are highlighted in light blue (Figure 8). Next, press the **Enter Button** 28 to complete the process. Note that the wording for Clear Password will change to white as a confirmation that the system is now unlocked.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Changing the Password

If you feel that the password has become known to an unauthorized person, you may change the password without unlocking the system. To change a password, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Password option is highlighted. As the system is locked, you will first be asked to enter the password previously set (Figure 9). Enter that password using the **Numeric Keys** 33–40, 42 43 and then press the **Enter Button** 28.

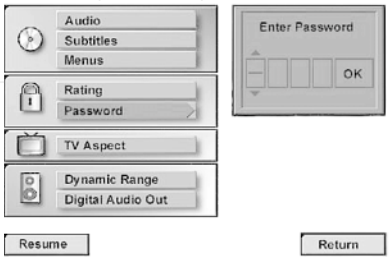


Figure 9

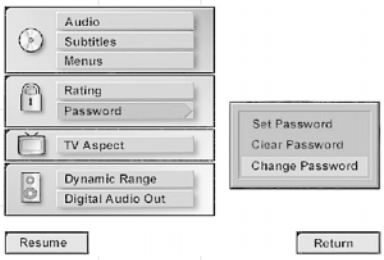


Figure 10

To change the password, press the ▼ **Button** 31 so that the words "Change Password" are highlighted in light blue (Figure 10). Next, press the **Enter Button** 28. On the next screen that appears (Figure 11), enter the new four-digit password directly by using the **Numeric Keys** 33–40, 42 43, or you may use the ▲/▼ **Buttons** 25 31 to select the number for a position, and then press the ▶ **Button** 29 to move to the next position. Note that as each number is entered, it will turn to a solid circle when you move to the next position to protect the password's privacy. When all four numbers of the password have been entered, press the **Enter Button** 28.

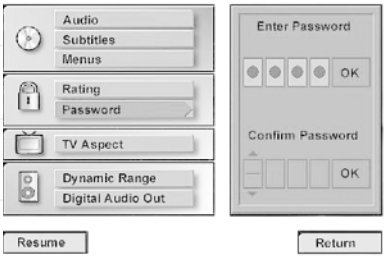


Figure 11

After the password has been entered once, a second set of data entry boxes will appear, asking you to confirm the entry (Figure 12). Using the same method described above, enter the password again. When all four numbers have been repeated, press the **Enter Button** 28 to set the password in the DVD600's memory. If the two passwords do not agree, an "Incorrect Password" message will appear to ask you to try entering the number again.

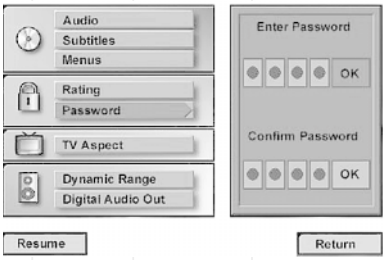


Figure 12

Once the new password has been entered, the system remains locked with the new password in effect. If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Setting the Aspect Ratio

The aspect ratio of a television picture is the relationship between its width and height, and it defines the shape of the picture. Television sets have traditionally had an aspect ratio of 4 x 3, which is to say that they are almost square, with slightly more width than height. Almost all television programming is presented in the 4 x 3 aspect ratio so that the pictures fit within the confines of the TV screen.

Movies, on the other hand, have a variety of what are known as "wide aspect ratio" formats that are significantly wider in relation to their height than traditional television pictures. Indeed, the development of wide-screen movies was something that was popularized in the 1950's in response to the success of television; movie producers wanted to provide a wider vista than afforded by TVs.

However, since many movies are produced for a wider screen than the TV set they are played on, a problem arises that is like fitting a square peg into a round hole. In many instances this is taken care of by the disc's producers, who reformat the image to fit within a standard 4 x 3 TV screen. Discs such as this require no special setting. The only downside to this is that when wide-screen movies are converted to 4 x 3, some of the information at the sides of a scene may be cut off due to the difference in picture shape. This is also called a "pan and scan" presentation, as a 4 x 3 viewing area is moved across the wider cinema image.

Other discs are produced in what is called a "letterbox wide-screen" format. In this case, the entire wide image is fit inside the 4 x 3 screen shape from side to side. This means that you see the entire picture as the movie's director intended, but the height of the picture is reduced to accommodate the added width. The blank areas that appear at the top and bottom of the screen make the image in the center appear as if you are looking through a mail slot, giving this sort of presentation the nickname of "letterbox."

The DVD format accommodates both of these formats, though it is up to the producer of the disc to select which way to convert the movie to video. Sometimes you will have a choice of only one of the two formats, while some discs offer a full screen, with the pan-and-scan version on one side of a disc and the widescreen, but letterbox version, on the other side.

The DVD600 will play either type of disc, and you may select a default that tells which way to present the image when there is a choice.

To select an aspect ratio default, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the **▼ Button** 31 until the Aspect Ratio option is highlighted. Next, press the **Enter Button** 28. Select one of the three choices in the options box (Figure 13) using the **▲/▼ Buttons** 25 31.

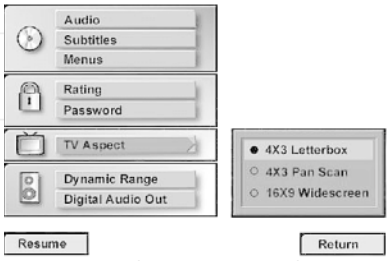


Figure 13

Depending on the type of television set you have, choose one of these three options:

- 4 x 3 Letterbox: Choose this setting if you have a standard 4 x 3 television set and prefer to see movies in their original aspect ratio. You will see the entire movie but, when it is presented in a letterbox fashion, there will be black bars at the top and bottom of the screen. Movies or other programs recorded in a 4 x 3 format will appear normal.

- 4 x 3 Pan and Scan: Choose this setting if you have a standard 4 x 3 television set and always want the image to fill the entire screen. When a wide screen movie is shown, you may not see parts of the picture at one side of the screen or the other. Note, however, that even when you select this option, playing a wide-screen-only movie will result in black letterbox bars at the top and bottom of the screen. This is due to the way the disc was produced, and it cannot be changed.

- 16 x 9 Wide-Screen: Choose this setting only if you have a wide-screen television set (16 x 9 aspect ratio). With this setting, the DVD600 will adjust the output for wide-screen movies so that they fill the entire screen in the proper aspect ratio. Note, however, that in this setting a disc recorded in the 4 x 3 aspect ratio will appear in the wide-screen as a boxed image in the center, with black columns on the left and right side of the screen.

NOTE: If the wide-screen option is chosen and a wide-screen movie is played on a conventional 4 x 3 aspect ratio set, the image will be distorted due to vertical compression.

When you have made your selection using the **▲/▼ Buttons** 25 31 to highlight the desired option, press the **Enter Button** 28 and note that the circle next to your choice will fill in. The menu system will then automatically return to the status listing.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Setting the Dynamic Range

With the DVD format you have the opportunity to hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to the use of digital audio technology. However, in certain instances you may wish to slightly compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones) so that you may listen to a movie at a lower volume that does not disturb others without losing dialog intelligibility.

In most cases, it is desirable to leave the Dynamic Range setting at "OFF" so that no compression is applied to the audio, but if you wish to change to a compressed setting, follow these steps:

First, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the **▼ Button** 31 until the Dynamic Range option is highlighted. Next, press the **Enter Button** 28 and select one of the two choices in the options box using the **▲/▼ Buttons** 25 31 (Figure 14). The choices are as follows:

- **Off:** Select this option to turn off the Dynamic Range compression and have the soundtrack presented exactly as it was authored.

- **On:** Select this option to turn on the Dynamic Range compression circuitry so that the dialog will remain clear even at low volume levels.

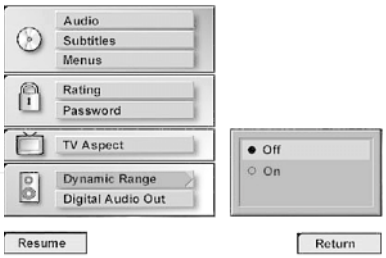


Figure 14

When you have made your selection using the ▲/▼ **Buttons** 25 31 to highlight the desired option, press the **Enter Button** 28 and note that the circle next to your choice will fill in. The menu system will then automatically return to the status listing.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

Note that the performance of the Dynamic Range function is dependent on the audio format of the disc being played, and whether or not the disc's soundtrack is capable of this feature.

Using the Digital Audio Output

DVD players accommodate a variety of audio formats, including Dolby Digital, DTS and the PCM audio format used by conventional CD discs and some DVD playback. The DCR600 receiver can automatically detect any of these digital formats. Depending on the format of the discs in your library, you need to set a default for the type of audio outputs accommodated. Although the DVD600 will play all of these disc types, this setting creates a default that tells which way to present the soundtracks when there is a choice.

To select a Digital Audio Output default, you must be viewing the Setup Menu (Figure 1), which is available by pressing the **Menu Button** 26 while the unit is in the Stop mode. At the Setup Menu, press the ▼ **Button** 31 until the Digital Audio Out option is highlighted. Next, press the **Enter Button** 28. Select one of the three choices in the options box (Figure 15) using the ▲/▼ **Buttons** 25 31. The choices are as follows:

- **PCM:** Choose this setting if most of your library consists of conventional CDs.
- **Dolby Digital:** Choose this setting only if you do not plan on listening to any DTS selections. Should you choose to watch a DVD movie or listen to a CD which has a DTS audio track, you must return to this menu and change this selection to DTS.
- **DTS:** We recommend that you choose this setting, since the DCR600 receiver included with your system is capable of automatically detecting and decoding any of the three formats of DTS, Dolby Digital and PCM.

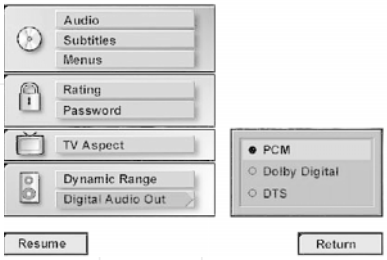


Figure 15

NOTE: If you select the DTS option, your receiver or processor MUST be capable of decoding DTS audio. If the DTS option is chosen and the unit is connected to a product that cannot support DTS, no audio will be heard when a DTS disc is played.

Remember, regardless of the option chosen, you may still have to adjust the settings on your DVD disc or audio equipment, if you do not use the DCR600, to match the output of the DVD600. In addition, the choice of which audio formats are available is limited by the type of material recorded on the disc when it was authored.

When you have made your selection using the ▲/▼ **Buttons** 25 31 to highlight the desired option, press the **Enter Button** 28 and note that the circle next to your choice will fill in. The menu system will then automatically return to the status listing.

If you have no other changes to make after setting this default, press the **Menu Button** 26 to remove the Setup Menu from the screen, or press the **Play Button** 58 10D to begin or resume playback.

OPERATING THE DCR600 RECEIVER
Surround Mode Chart

MODE	FEATURES	DELAY TIME RANGE
DOLBY DIGITAL	Available only with digital input sources encoded with Dolby Digital data. It provides up to five separate main audio channels and a special dedicated Low-Frequency Effects channel.	Center: 0 ms – 5 ms Initial Setting – 0 ms Surround: 0 ms – 15 ms Initial Setting – 0 ms
DTS	Available only with digital input sources encoded with DTS data. Available on special DVD, LD and audio-only discs, DTS provides up to five separate main audio channels and a special dedicated low-frequency channel.	Delay time not adjustable
DOLBY PRO LOGIC	The standard mode for analog surround-sound decoding. It uses information encoded in a two-channel stereo recording to produce four distinct outputs: Left, Center, Right and a Mono Surround channel. Use this mode for accurate reproduction of programs bearing the Dolby Surround, DTS Stereo, UltraStereo® or other "Surround" logos. Surround-encoded programs include videocassette, DVD and LD movies, TV and cable programs, radio programs and audio CDs. Dolby Pro Logic processing may also be used to provide a pleasing surround effect with some stereophonic source material that does not carry surround encoding.	15 ms – 30 ms Initial Setting = 15 ms
LOGIC 7 C LOGIC 7 M	Logic 7 is an advanced mode that extracts the maximum surround information from either surround-encoded programs or conventional stereo material. The Logic 7 C, or Cinema, mode should be used with any source that contains Dolby Surround or similar matrix encoding. Logic 7 C delivers increased center-channel intelligibility, and more accurate placement of sounds with fades and pans that are much smoother and more realistic than with other decoding techniques. The Logic 7 M, or Music, mode should be used with analog or PCM stereo sources. Logic 7 M enhances the listening experience by presenting a wider front soundstage and greater rear ambience. Both Logic 7 modes also direct low-frequency information to the subwoofer (if installed and configured) to deliver maximum bass impact.	Delay time not adjustable
DOLBY 3 STEREO	Uses the information contained in a surround-encoded or two-channel stereo program to create center-channel information. In addition, the information that is normally sent to the rear-channel surround speakers is carefully mixed in with the front-left and front-right channels for increased realism. Use this mode when you have a center-channel speaker but no surround speakers.	No surround channels
THEATER	Surround processing uses matrix surround decoding to simulate a standard movie or stage theater.	Delay time not adjustable
HALL 1	The Hall mode offers a matrix surround choice that simulates a medium-sized chamber hall.	Delay time not adjustable
VMAx Near VMAx Far	When only the two front-channel loudspeakers are used, JBL's patented VMAx mode delivers a three-dimensional sound space with the illusion of "phantom speakers" at the center and surround positions. The VMAx N, or Near Field, mode should be selected when your listening position is less than five feet from the speakers. The VMAx F, or Far Field, mode should be selected when your listening position is greater than five feet from the speakers.	No surround channels
5-Channel Stereo	This mode takes advantage of multiple speakers to place a stereo signal at both the front and back of a room. Ideal for playing music in situations such as a party, it places the same signal at the front-left and surround-left, and front-right and surround-right speakers. The center channel is fed a summed mono mix of the in-phase material of the left and right channels.	No delay is available for this mode
SURROUND OFF (STEREO)	This mode turns off all surround processing and presents the pure left- and right-channel presentation of two-channel stereo programs.	No surround channels

Selecting a Surround Mode

One of the most important features of the DCR600 is its ability to reproduce a full multichannel, surround-sound field from digital sources, analog matrix surround-encoded programs and standard stereo programs. In all, a total of twelve listening modes are available on the DCR600.

Selection of a surround mode is based on personal taste, as well as the type of program source material being used. For example, motion pictures or TV programs bearing the logo of one of the major surround-encoding processes, such as Dolby Surround, DTS Stereo or UltraStereo may be played in either the Dolby Digital, Dolby Pro Logic or Logic 7 Cinema surround modes depending on the source material.

NOTE: Once a program has been encoded with matrix surround information, it retains the surround information as long as the program is broadcast in stereo. Thus, movies with surround sound may be decoded via any of the analog surround modes such as Pro Logic or Logic 7, when they are broadcast via conventional TV stations, cable, pay-TV and satellite transmission. In addition, a growing number of made-for-television programs, sports broadcasts, radio dramas and music CDs are also recorded in surround sound. You may view a list of these programs at the Dolby Laboratories Web site at www.dolby.com.

Even when a program is not listed as carrying intentional surround information, you may find that the Pro Logic, Logic 7, VMAx and the Hall or Theater modes often deliver enveloping surround presentations through the use of the natural information present in all stereo recordings. However, for stereo, but not surround programs, we suggest that you experiment with the other modes.

Surround modes are selected using either the front panel controls or the remote. To select a surround mode from the front panel, press the **Surround Mode Selector** 7 to scroll up or down through the list of available modes. To select a surround mode using the remote, press the **Surround Mode Selector** 20 and then press the **▲/▼ Button** 20 25 31 to change the mode. As you press the buttons, the Surround mode name will appear in the **Main Information Display** W, and an individual mode indicator will also light up C D F H I J K L M.

Note that the Dolby Digital and DTS modes may only be selected when a digital input is in use. In addition, when a digital source is present, the DCR600 will automatically select and switch to the correct mode (Dolby Digital or DTS), regardless of the mode that has been previously selected. For more information on selecting digital sources, see the following section of this manual.

To listen to a program in traditional two-channel stereo, using the front-left and front-right speakers only (plus the subwoofer if installed and configured), follow the instructions shown above for using the remote until SURR OFF appears in the **Main Information Display** W.

Using Digital Sources

Digital audio is a major advancement over older systems such as Dolby Pro Logic. It delivers five discrete channels: left-front, center, right-front, left-surround and right-surround. Each channel reproduces full frequency range (20Hz to 20kHz) and offers dramatically improved dynamic range and significant improvements to signal-to-noise ratios. In addition, digital systems have the capability to deliver an additional channel that is specifically devoted to low-frequency information. This is the ".1" channel referred to when you see these systems described as "5.1". The bass channel is separate from the other channels, but since it is intentionally bandwidth-limited, sound designers have given it that unique designation.

Dolby Digital

Dolby Digital (originally known as AC-3®) is a standard part of DVD, and is available on specially encoded LD discs and satellite broadcasts and is a part of the new high-definition television (HDTV) system.

Note that an optional, external RF demodulator is required to use the DCR600 to listen to the Dolby Digital soundtracks available on laser discs. Connect the RF output of the LD player to the demodulator and then connect the digital output of the demodulator to the **Optical** or **Coaxial Inputs** 24 25 13 14 of the DCR600. No demodulator is required for use with DVD players or DTS-encoded laser discs.

DTS

DTS is another digital audio system that is capable of delivering 5.1 audio. Although both DTS and Dolby Digital are digital, they use different methods of encoding the signals, and thus they require different decoding circuits to convert the digital signals back to analog.

DTS-encoded soundtracks are available on select DVD and LD discs, as well as on special audio-only DTS discs. You may use any LD or CD player equipped with a digital output to play DTS-encoded discs with the DCR600. All that is required is to connect the player's output to either the **Optical** or **Coaxial Input** on the rear panel 24 25 or front panel 13 14.

In order to listen to DVDs encoded with DTS soundtracks, the DVD player must be compatible with the DTS signal as indicated by a DTS logo on the player's front panel. Note that, although early DVD players may not be able to play DTS-encoded DVDs, the DVD600 is compatible. This does not indicate a problem with the DCR600, as some players cannot pass the DTS signal through to the digital outputs. If you are in doubt as to the capability of your DVD player to handle DTS discs, consult the player's owner's manual.

Selecting a Digital Source

To utilize either digital mode, you must have properly connected a digital source to the DCR600. Connect the digital outputs from DVD players, HDTV receivers, satellite systems or CD players to the **Optical** or **Coaxial Inputs** 24 25 13 14. In order to provide a backup signal and a source for analog stereo recording, the analog outputs provided on digital source equipment should also be connected to their appropriate inputs on the DCR600 rear panel (note that the DCR600 does not offer an analog audio input for DVD).

When playing a digital source, first select the input using the remote or front panel controls as outlined in this manual. Next, select the digital source by pressing the **Digital Input Selector Button** 30 24 and then using the **▲/▼ Buttons** 25 31 on the remote or the **Selector Buttons** 5 on the front panel to choose any of the OPTICAL or COAXIAL inputs, as they appear in the **Main Information Display** W, or **Source Indicators** B E. Note that the DCR600's DVD input is configured at the factory to default to the COAX 1 digital input. When the

digital source is playing, the DCR600 will automatically detect whether it is a multichannel Dolby Digital, DTS source, MP3 or a conventional PCM signal, which is the standard output from CD players. A **Bitstream Indicator** A will light in the **Main Information Display** 24 to confirm that the digital signal is Dolby Digital, DTS or PCM.

Digital Status Indicators

When a digital source is playing, the DCR600 senses the type of bitstream data that is present. Using this information, the correct surround mode will automatically be selected. For example, DTS bitstreams will cause the unit to switch to DTS decoding, and Dolby Digital bitstreams will enable Dolby Digital decoding. When the unit senses PCM data from CDs and LDs, it will allow the appropriate surround sources to be selected manually. Since the range of available surround modes is dependent on the type of digital data that is present, the DCR600 uses a variety of indicators to let you know what type of signal is present. This will help you to understand the choice of modes.

When a digital source is playing, a **Bitstream Indicator** A will light to show which type of signal is playing:

DOLBY D: When the DOLBY D indicator lights, a Dolby Digital bitstream is being received. Depending on the settings on the source player and specific surround information and number of channels on the disc, a number of surround modes are possible. For discs with full 5.1 audio, only the Dolby Digital and VMAx modes are available. When the Dolby Digital signal is only two-channel, you may also select from the Logic 7 Cinema/Music, Hall, Theater, Dolby Pro Logic or Dolby 3 Stereo modes.

DTS: When the DTS indicator lights, a DTS bitstream is being received. When the unit senses this type of data, only the DTS mode may be used.

PCM: When the PCM indicator lights, a standard Pulse Code Modulation, or PCM, signal is being received. This is the type of digital audio used by conventional compact disc and laser disc recordings. When a PCM bitstream is present, all modes except Dolby Digital and DTS are available.

MP3: When the MP3 indicator lights, a compatible MPEG 1/Layer 3 digital signal is being received. This is the popular audio format used by many computer programs for recording compressed audio files. When an MP3 bitstream is present, the sound will automatically be played in the Stereo (surround off) mode. The surround modes are not available during MP3 playback. MP3 bitstreams can only be received from a compatible PC sound card with an S/P-DIF output.

In addition to the bitstream indicators, the DCR600 features a set of unique channel-input indicators that tell you how many channels of digital information are being received and/or whether the digital signal is interrupted.

These indicators are the L/C/R/LS/RS/LFE letters that are inside the center boxes of the **Speaker/Channel Input Indicators** O in the front panel **Main Information Display** 24. When a standard analog signal is in use, only the "L" and "R" indicators will light, as analog signals have only left and right channels, respectively.

Digital signals, however, may have two, five or six separate channels, depending on the program material, the method of transmission and the way in which it was encoded. When a digital signal is playing, the letters in these indicators will light in response to the specific signal being received. It is important to note that although Dolby Digital, for example, is referred to as a "5.1" system, not all Dolby Digital DVDs or programs are encoded for 5.1. Thus, it is sometimes normal for a DVD with a Dolby Digital soundtrack to trigger only the "L" and "R" indicators.

NOTE: Many DVD discs are recorded with both "5.1" and "2.0" versions of the same soundtrack. When playing a DVD, always be certain to check the type of material on the disc. Most discs show this information in the form of a listing or icon on the back of the disc jacket. When a disc does offer multiple soundtrack choices, you may have to make some adjustments to your DVD player (usually with the "Audio Select" button or in a menu screen on the disc) to send a full 5.1 feed to the DCR600. It is also possible for the type of signal feed to change during the course of a DVD playback. In some cases, the previews of special material will only be recorded in 2.0 audio, while the main feature is available in 5.1 audio. As long as your DVD player is set for 6-channel output, the DCR600 will automatically sense changes to the bitstream and channel count and reflect them in these indicators.

The letters used by the **Speaker/Channel Input Indicators** O also flash to indicate when a bitstream has been interrupted. This will happen when a digital input source is selected before the playback starts, or when a digital source such as a DVD is paused. The flashing indicators remind you that the playback has stopped due to the absence of a digital signal and not through any fault of the DCR600. This is normal, and the digital playback will resume once the playback is started again.

Night Mode

A special feature of Dolby Digital is the Night mode, which enables AC-3 input sources to be played back with full digital intelligibility while reducing the minimum peak level by 1/4 to 1/3. This prevents abruptly loud transitions from disturbing others, without reducing the impact of the digital source. The Night mode is available only when Dolby Digital signals with special data are being played.

The Night mode may be engaged when a Dolby Digital DVD is playing by pressing the **Night Mode Button** 50 on the remote. Next, press the ▲/▼ **Buttons** 25 31 to select either the middle range or full-compression versions of the Night mode. To turn the Night mode off, press the ▲/▼ **Buttons** 25 31 until the message in the lower third of the video display and the **Main Information Display** W reads D-Range Off. When the Night mode is active, the **Night Mode Indicator** N will also light.

IMPORTANT NOTES ON DIGITAL PLAYBACK:

1. When the digital playback source is stopped, or in a Pause, Fast Forward or Chapter Search mode, the digital audio data will momentarily stop, and the channel position letters inside the **Speaker/Channel Input Indicators** O will flash. This is normal and does not indicate a problem with either the DCR600 or the source machine. The DCR600 will return to digital playback as soon as the data is available and when the machine is in a standard play mode.

2. Although the DCR600 will decode virtually all DVD movies, CDs and HDTV sources, it is possible that some future digital sources may not be compatible with the DCR600.

3. Note that not all digitally encoded programs contain full 5.1-channel audio. Consult the program guide that accompanies the DVD or laser disc to determine which type of audio has been recorded on the disc. The DCR600 will automatically sense the type of digital surround encoding used and adjust to accommodate it.

4. When a digital source is playing, you may not be able to select some of the analog surround modes such as Dolby Pro Logic, Dolby 3, Stereo, Hall, Theater or Logic 7.

5. When a Dolby Digital or DTS source is playing, it is not possible to make an analog recording using the **Tape** ❷ and **Video 1 Record Outputs** ❺❷⓪. However, the digital signals will be passed through to the **Digital Audio Outputs** ❽.

PCM Audio Playback

PCM (Pulse Code Modulation) is the non-compressed digital audio system used for compact discs and laser discs. The digital circuits in the DCR600 are capable of high-quality digital-to-analog decoding, and they may be connected directly to the digital audio output of your CD or LD player.

Connections may be made to either the rear panel **Optical** or **Coaxial Inputs** ㉔㉕ or the front panel **Digital Inputs** 13 14.

To listen to a PCM digital source, first select the input for the desired source (e.g., CD). Next press the **Digital Select Button** 24 ㉚ and then use the ▲/▼ **Buttons** ㉕ ㉛ on the remote, or the **Selector Buttons** 5 on the front panel, until the desired choice appears in the **Main Information Display** W.

When a PCM source is playing, the **PCM Indicator** A will light. During PCM playback, you may select any surround mode except Dolby Digital or DTS.

Playback from PCM sources may also benefit from the Logic 7 mode. When playing back a surround-encoded PCM source, such as an LD or surround-encoded CD, use the Logic 7 C (or Cinema) mode. When playing true stereo recordings, use the Logic 7 M (or Music) mode for a wider soundstage and increased rear-channel ambience.

MP3 Audio Playback

The DCR600 is one of the first A/V receivers to provide on-board decoding for the MP3 audio format used by computers and portable audio devices. In addition, some new CD players are capable of playing back optical discs that are recorded with MP3, rather than standard CD audio information. By offering MP3 decoding, the DCR600 is able to deliver more precise conversion of the digital signals to an analog output, along with the benefits of listening to the MP3 audio through the DCR600's high-current amplifier and the speakers from your surround system, rather than the smaller speakers and low-powered amplifiers typically used with computers.

To take advantage of the DCR600's MP3 capabilities, simply connect the PCM output of a computer's sound card or the PCM output of a portable digital audio device to either the rear panel **Digital Inputs** ㉔㉕ or the front panel **Digital Inputs** 13 14. As soon as the digital signal is available, the **MP3 Bitstream Indicator** A will light, and the audio will begin playing.

NOTES:

- The DCR600 is only capable of playing signals in the MP3 (MPEG 1/Layer 3) format. It is not compatible with other computer audio codecs.
- The digital audio input signal may be either optical or coaxial, but the signal must be in the PCM format. Direct connection of USB or serial data outputs is not possible, even though the signals are in the MP3 format. If you have any questions about the data output format from your computer or a sound card, check with the device's owner's manual or contact the manufacturer's technical support area.

Operating the Tuner

The DCR600's tuner is capable of tuning AM, FM and FM Stereo broadcast stations. Stations may be tuned manually, or they may be stored as favorite station presets and recalled from a 30-position memory.

Station Selection

1. Press the **AM/FM Tuner Select Button** ⑪ on the remote to select the tuner as an input. The tuner may be selected from the front panel by either pressing the **Input Source Selector** 11 until the tuner is active or by pressing the **Tuner Band Selector** 9 at any time.

2. Press the **AM/FM Tuner Select Button** ⑪ or **Tuner Band Selector** 9 again to switch between AM and FM so that the desired frequency band is selected.

3. Press the **FM Mode Button** 12 ㊶ to select manual or automatic tuning.

When the **AUTO Indicator** V is illuminated in the **Main Information Display** W the tuner will stop only at those stations that have a strong enough signal to be received with acceptable quality.

When the **AUTO Indicator** V is not illuminated, the tuner is in a manual mode and will stop at each frequency increment in the selected band. Press and hold the **Tuning Selector Button** 8 ㊺ ㊾ to search more quickly.

4. To select stations, press the **Tuning Selector Button** 8 ㊺ ㊾. When the **AUTO Indicator** V is illuminated, press the button for two seconds and then release to cause the tuner to search for the next highest- or lowest-frequency station that has an acceptable signal. When tuning FM stations in the Auto mode, the tuner will select only stereo stations. To tune to the next station, press the button again. If the **STEREO Indicator** T is not illuminated, tap the **Tuning Selector Button** 8 ㊺ ㊾ to advance one frequency increment at a time, or press and hold it to locate a specific station. When the **TUNED Indicator** U lights, the station is properly tuned and should be heard with clarity.

5. Stations may also be tuned directly by pressing the **Direct Button** ㊻, and then pressing the **Numeric Keys** ㉝–㊵ ㊷ ㊸ that correspond to the station's frequency. The desired station will automatically be tuned. If you press an incorrect button while entering a direct frequency, press the **Clear Button** ㊼ to start over.

NOTE: When the FM reception of a station is weak, audio quality will be increased by switching to Mono mode by pressing the **FM Mode Button** 12 ㊶ until the **STEREO Indicator** T goes out.

Preset Tuning

Using the remote, up to 30 stations may be stored in the DCR600's memory for easy recall using the front panel controls or the remote.

To enter a station into the memory, first tune the station using the steps outlined above. Then:

1. Press the **Memory Button** ㊹ on the remote. Note that the **MEMORY Indicator** S will be illuminated and flash in the **Main Information Display** 24.

2. Within five seconds, press the **Numeric Keys** ㉝–㊵, ㊷ ㊸ corresponding to the location where you wish to store this station's frequency. Once entered, the preset number will appear in the **Preset Number/Sleep Timer Display** P.

3. Repeat the process after tuning any additional stations to be preset.

Recalling Preset Stations

- To manually select a station previously entered in the preset memory, press the **Numeric Keys** ㉝–㊵, ㊷ ㊸ that correspond to the desired station's memory location.

- To manually tune through the list of stored preset stations one by one, press the **Preset Stations Selector Buttons** ⑩ ㊽ ㊷ on the front panel or remote.

Tape Recording

In normal operation, the audio or video source selected for listening through the DCR600 is sent to the record outputs. This means that any program you are watching or listening to may be recorded simply by placing machines connected to the outputs for **Tape Outputs** ❷ or **Video 1 Outputs** ❺⑳ in the Record mode.

When a digital audio recorder is connected to the **Digital Audio Outputs** ❽, you are able to record the digital signal using a CD-R, MiniDisc or other digital recording system.

NOTES:

- The digital outputs are active only when a digital signal is present, and they do not convert an analog input to a digital signal, or change the format of the digital signal. In addition, the digital recorder must be compatible with the output signal. For example, the PCM digital input from a CD player may be recorded on a CD-R or MiniDisc, but Dolby Digital or DTS signals may not.

- Please make certain that you are aware of any copyright restrictions on any material you copy. Unauthorized duplication of copyrighted materials is prohibited by federal law.

OPERATING THE DVD600 CHANGER

Loading Discs

To load discs in the DVD600, first make certain that the unit is turned on by pressing the **Standby Switch** 1D so that it latches, and then the **Power On Button** 2 on the remote, or the **Open/Close Button** 6D 6 or **Play Button** 10D 58 .The **Status Indicator** 2D turns green.

Next, press the **Open/Close Button** 6D 6 until the **Disc Tray** 3D opens.

Holding the discs by the edge, gently place each one into one of the compartment slots in the drawer. Note that there is a number embossed onto the drawer tray at the right of the disc slot. This is the number for that specific disc position; it will be used to indicate the disc in both the Information Display and the on-screen displays.

When loading discs, please note the following:

- The DVD600 will play discs with the following logos only. DO NOT attempt to play another type of disc, as shown in the list on page 46.

- The DVD600 will only play discs in the NTSC video format. It will not play discs for other standards such as PAL or SECAM.
- Playback capability for CD-RW discs will vary according to the quality of the CD-RW disc. On some occasions, it is possible that CD-RW discs may not play on the DVD600. This does not indicate any problem with the DVD600.
- The DVD600 will only play discs that are coded for Region 1 or discs that are open to being played in all regions. Discs that contain a Region Code of 2, 3, 4, 5 or 6 (as noted by a number inside a world map logo on the disc's cover jacket or case) will not play.
- Both 5-inch (12cm) and 3-inch (8cm) discs may be used.
- When loading CD audio discs, load the discs with the label side up.
- When loading DVD discs with printed labels, load them label side up.
- Some DVD discs are double-sided. The title information for these will be printed on the inner ring of the disc, very close to the center hole. The title for the side you wish to play should be facing up.

To move the discs in the tray so that you may insert discs in slots that are partially hidden inside the disc tray drawer, press the **Disc Skip Button** 4D 51 . Each press of the button will move the carousel tray one position to the left (counterclockwise).

- To access all disc positions, the unit must be in the full-stop position. If the unit is in the Play mode, press the **Stop Button** 8D 61 twice.
- If the disc tray drawer is opened while a disc is playing, the Play Exchange feature allows you to change the remaining four discs. Simply press the **Disc Skip Button** 4D 51 to move the discs in the tray in one direction or the other.

IMPORTANT NOTES ON DISC LOADING

- Remove all discs from the tray before moving the player.
- Make certain that all discs are properly seated before closing the disc tray drawer.
- Do not push the disc tray drawer with the power off.
- Do not attempt to change discs or touch the disc tray carousel while it is moving.
- Do not attempt to rotate the disc tray by hand. If the tray drawer or carousel tray appears to be stuck, contact your local JBL authorized service center.
- Do not load more than one disc in each slot in the tray and do not attempt to place a standard 5-inch (12cm) disc over a smaller 3-inch (8cm) disc.

Once the discs are loaded, press the **Open/ Close Button** 6D 6 to close the disc tray. When the tray drawer closes, the disc that was last in the center position facing outward in the tray will be readied for playback. After the drawer closes, you will see a brief indication of `Reading` in both the Information Display and in the on-screen display to alert you to the fact that the unit is determining the type of disc (DVD or CD) and is reading the data for track, chapter, title and other information about the disc. At the same time, the **Disc Number Indicator** B for the disc in use will begin to flash, indicating which disc is being played.

Once the disc's data has been read, the type of disc (DVD or CD) will be displayed by the **Disc Type Indicator** A and the disc will automatically begin playing. The disc's track timing information and other relevant data will appear in the **Information Display** 12D . For CD discs only, a Status Menu Bar will appear in the on-screen display. To view this display for DVD discs, press the **Status Button** 5.

The **Disc Number Indicator** B will show a lighted number for the disc slot positions that are occupied, and the disc in use will flash. Note, however, that all occupied positions may not be shown until the disc tray has been rotated past an empty or occupied slot by pressing the **Disc Skip Buttons** 4D 51 , or by manually selecting a specific disc with the Disc-Select buttons.

Playback Basics

Basic playback with the DVD600 involves functions similar to those you may be familiar with for conventional CD players or changers:

- Turn the unit on by pressing in the **Power Switch** 1D , if it has not already been engaged. If there are already discs loaded in the unit, the last disc to be played will automatically begin playing.
- If the disc was stopped using the Resume function, (by pressing the **Stop Button** 8D 61 once) playback will begin from the point where it was stopped. If the disc was stopped by pressing the **Stop Button** 8D 61 twice, the disc will begin playing from its beginning.
- Load any new discs as indicated in the previous section.
- After loading discs, press the **Open/Close Button** 6D 6 to begin play.

Playback Features for DVD and CD Discs:

- To move to the next disc in the unit, press the **Disc Skip Button** 4D 51 .
- To select a specific disc in the player, press the **Direct Access Button** 11D corresponding to the slot where that disc is loaded.
- To momentarily pause playback and freeze the current picture frame on a DVD, press the **Pause Button** 9D 62 . To resume playback after pressing the Pause button, press the **Play Button** 10D 58 .
- To move forward or backward through the tracks on a CD or the chapters on a DVD, press the **Skip Forward/Reverse Buttons** 7D on the front panel or the **Previous/ Next Buttons** on the remote 63 64 .

- To move forward or backward through the DVD or CD disc being played at fast speed, press the **Search Forward/Reverse Buttons** 5D 57 59 . Once one of these buttons is pressed, the fast search will continue until the **Play Button** 10D 58 is pressed. Note that the fast-play speeds vary for CD discs and DVDs.

For DVD playback, there are four fast-play speeds. Each press of the **Search Forward/ Reverse Buttons** 5D 57 59 will cycle to the next speed in the following order:

- In Fast Search x2, the ◀◀ and ▶▶ **Playback Mode Indicators** K will both light steadily.
- In Fast Search x4, the outside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the inside indicator will remain steadily lit.
- In Fast Search x8, the inside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the outside indicator will remain steadily lit.
- In Fast Search x16, both ◀◀ and ▶▶ **Playback Mode Indicators** K will flash.

Note that there will be no audio playback during fast-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during fast-play modes; audio will be heard during fast-play of conventional CDs.

For CD playback, there are three fast-play speeds. Each press of the of the **Search Forward/Reverse Buttons** 5D 57 59 will cycle to the next speed in the following order:

- In Fast Search x2, the ◀◀ and ▶▶ **Playback Mode Indicators** K will both light steadily.
- In Fast Search x4, the outside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the inside indicator will remain steadily lit.
- In Fast Search x8, the inside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the outside indicator will remain steadily lit.

When playing a DVD disc, you may move forward or backward through the program being played in one of four speeds by pressing the **Slow-Play Buttons** 48 52 on the remote. Each press of the buttons will move to the next speed in the following order:

- In the 1/16 Speed Slow mode, the ◀◀ and ▶▶ **Playback Mode Indicators** K will both flash.
- In the 1/8 Speed Slow mode, the inside ◀◀ and ▶▶ **Playback Mode Indicator** K will flash and the outside indicator will remain steadily lit.
- In the 1/4 Speed Slow mode, the outside ◀◀ or ▶▶ **Playback Mode Indicator** K will flash and the inside indicator will remain steadily lit.
- In the 1/2 Speed Slow mode, both the ◀◀ and ▶▶ **Playback Mode Indicators** K will remain steadily lit.

Note that there will be no audio playback during slow-forward or -reverse play of DVD discs. This is normal for DVD, as A/V receivers and surround processors cannot process the digital audio streams during slow modes. Slow play is not available for CD discs.

- When a camera icon appears on the screen, this is your indication that there is multiple-angle information on the disc being played. To change the angle, press the **Angle Button** 41 until the desired angle view appears. An on-screen banner message will appear to indicate the angle view in use.

NOTE: Playback of discs with 96kHz/24-bit audio requires the use of circuitry normally used for other features. Accordingly, Slow Play, Forward/Reverse Search, Step Advance and Pause features are not available with these discs.

Using the DVD Disc's Menu

One of the unique features of the DVD system is that it offers a producer the opportunity to include a wide range of features on a disc, including multiple-language tracks; subtitles in a variety of languages; special information such as movie trailers and cast information; as well as other custom-tailored information. In addition, producers may divide a movie or program into chapters that allow for quick access to specific parts of the program. These chapters may be accompanied by thumbnail pictures of a scene from the specific chapter to help you select the desired spot on the disc.

When a disc is playing, press the **Menu Button** 26 to pause the playback and display the disc's menu. As there are no hard rules about style and content of DVD menus, the way they appear on the screen and the information they contain will vary from one disc to another. However, the following general rules apply to most menus:

- The first menu that appears is the Main Menu, and you may move through the options with the ▲/▼/◀/▶ **Buttons** 25 27 29 31 , as the disc's programming allows. The option selected will typically be highlighted in a certain color or inside an outline box.
- To select a highlighted option, which may either play a portion of the disc or move to a sub-menu, press the **Enter Button** 28 or **Play Button** 58 10D .
- On some discs, when you select the DVD menu during the playback of a movie, the disc will return to the point in the program where the menu was selected by offering a "Play Movie" option. Press the **Enter Button** 28 or **Play Button** 58 10D to resume play. However, not all discs offer this feature, and selecting the menu while playing a movie may mean that you will either have to go back to the beginning of the program or the start of a chapter. This feature is out of the control of the DVD600, as it is set by the disc's internal programming.

IMPORTANT NOTES ON DVD PLAYBACK

The DVD600 is capable of all the features and options covered by the DVD standards. However, it is up to the producer of a DVD disc to decide which of those features and functions are available on any given disc. For that reason, not all discs will function identically, and some discs will not have many of the features of the DVD system. For example, most current DVD discs do not take advantage of the multiple-angle feature. When you press a button and the player displays the "Feature Prohibited" icon "Ø", this is an indication that the disc has not been programmed for that feature.

In addition, it is common for the producers of DVD discs to block the use of certain functions during only some parts of a disc. For example, many discs prohibit the use of fast-play buttons or prohibit access to the Chapter Menu display during the playback of copyright notices, studio logos, movie credits or trailers. The appearance of the "Feature Prohibited" icon "Ø", or the inability of certain features to operate when the disc itself has prohibited them, does not indicate a problem with the DVD600, as these features are outside of the unit's control.

Using the Menu Bar

The DVD600 is equipped with a powerful on-screen display system that serves the dual purpose of showing you the current status of the DVD600 while enabling quick and easy changes to settings and functions. Depending on whether a DVD or CD is in use, the menu will vary to display information that is specific to the type of disc in play.

Menus and Controls

When a DVD is playing, press the **Status Button** ❺ to view the status of the current disc and to change the setting for key playback functions (Figure 16).

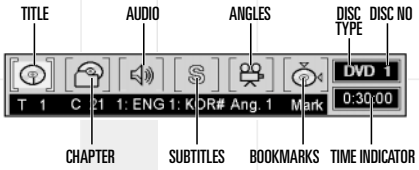


Figure 16

Title: The number shown indicates the number of the title that is currently playing.

Chapter: The number shown indicates the number of the chapter that is currently playing.

Audio: The number and abbreviation show the audio language soundtrack that is currently playing. Consult the DVD jacket for the key to available audio tracks on the disc.

Subtitles: The number and abbreviation show the subtitle language that is currently playing. Consult the DVD jacket for the key to available subtitle languages on the disc.

Angles: The number shown indicates the multiple-angle view that is currently playing.

Bookmarks: Highlight this area and press the **Enter Button** ㉘ to mark or go to previously bookmarked locations on a disc.

Disc Type: The type of disc playing (DVD or CD) is shown.

Disc Number: The slot number of the disc being played is shown.

Time Indicator: The elapsed time of the current title is shown.

Once the Menu Bar appears, press the ◀/▶ **Buttons** ㉗ ㉙ to move across the display to select the desired option. When the option to be changed is highlighted in white with yellow brackets on both sides, press the **Enter Button** ㉘ to change the setting for that option.

Selecting Titles and Chapters

Some discs contain more than one title. Remember that a disc may contain one title or two separate program titles, or the disc may use the Title function to separate the special feature sections on the disc. The use of titles is optional with the producer of each DVD disc, as is the way in which he/she may choose to implement the feature.

To change the title on those discs using the Menu Status Bar, follow these steps:

1. During disc playback, press the **Status Button** ❺.

2. If needed, press the ◀/▶ **Buttons** ㉗ ㉙ until the disc icon for the current title, with the letter "T" underneath it, is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the number to the right of the "T" will be replaced with two dashes (– –).

5. Use the **Numeric Keys** ㉝–㊵, ㊷ ㊸ to enter the number of the title to be accessed.

6. The desired title will automatically be started.

Titles may also be selected during the playback of a DVD by pressing the **Title Button** ㉔. However, the action of the disc when pressing this button will vary from disc to disc. On occasion, pressing this button will take you to the disc's main menu while, in other cases, pressing this button will result in no action at all.

The movies or programs on most discs are divided into individual chapters, as selected by the disc's producer. Using the on-screen Menu Bar, you may view the number of the current chapter and move to any chapter on the disc.

To change the chapter using the Menu Status Bar, follow these steps:

1. During disc playback, press the **Status Button** ❺.

2. Press the ◀/▶ **Buttons** ㉗ ㉙ until the icon showing a disc and a file folder (second from left), with the letter "C" beneath it, is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the number to the right of the "C" will be replaced with two dashes (– –).

5. Using the **Numeric Keys** ㉝–㊵, ㊷ ㊸, enter the number of the chapter to be accessed.

6. The desired chapter will automatically be started.

Changing Languages

DVD discs may contain a variety of audio tracks, including foreign languages, special commentaries, descriptive video for the sight-impaired, and various digital formats. In normal play, the unit will always look for the default setting for the audio track, but you may change the audio track at any time using the Menu Status Bar and following these steps:

1. During disc playback, press the **Status Button** ❺.

2. Press the ◀/▶ **Buttons** ㉗ ㉙ until the speaker icon (third from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the main Menu Bar will be replaced with a single display of the current language type (Figure 17).

Figure 17

5. Press the **Enter Button** ㉘ until the desired audio track is displayed. Note that the audio tracks available on a disc will vary and that they are always listed on the disc's jacket or cover.

6. Within a few seconds, the disc will continue play with the newly selected audio track.

Note that the audio track type selected in this fashion is temporary and will only remain in effect until the player is turned off. When the unit is turned on for subsequent play, the default audio type will always be used.

The audio track may also be selected during the playback of a DVD by pressing the **Audio Button** ⑳. After pressing the button, the audio track may be changed by pressing the **Enter Button** ㉘ until the desired audio track is shown. Note, however, that some discs do not allow audio track change while a disc is playing. When the **Audio Button** ⑳ is pressed on this type of disc, the player will go to the disc's own menu page for audio track selection. In this case, use the **◀/▶/▲/▼ Buttons** ㉕㉗㉙㉛ to make the selection from the menu screen and then press the **Enter Button** ㉘.

The functionality of the **Audio Button** ⑳ may vary from disc to disc. Many discs will allow you to change the playback language while the disc is playing, as noted earlier. However, when the **Audio Button** ⑳ is pressed with some discs, playback will stop and you will be taken to the disc's own audio menu. At that menu, use the **◀/▶/▲/▼ Buttons** ㉕㉗㉙㉛ to highlight the desired playback language. Press the **Enter Button** ㉘ when the choice is made and the disc will either resume playback or take you to the disc's main menu. Note that these functions are controlled by information programmed within the disc, and are outside of the control of the DVD600.

DVD discs may contain a variety of subtitles. In normal play, the unit will always look for the default setting for the subtitle language, but you may change that language at any time using the Menu Status Bar and by following these steps:

1. During disc playback, press the **Status Button** ❺.

2. Press the **◀/▶ Buttons** ㉗㉙ until the letter "S" icon (fourth from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the main Menu Bar will be replaced with a single display of the subtitle language (Figure 18).

Figure 18

5. Press the **Enter Button** ㉘ until the desired subtitle language is displayed. Note that the subtitles available on a disc will vary, and they are always listed on the disc's jacket or cover. Some discs may not offer alternative subtitles, or any subtitles at all.

6. Within a few seconds, the disc will continue to play with the newly selected subtitle language.

Note that the subtitle language selected in this fashion is temporary, and will remain in effect until the player is turned off. When the unit is turned on for subsequent play, the default subtitle language will always be used.

The subtitle language may also be selected during the playback of a DVD by pressing the **Subtitle Button** ㉚. After pressing the button, the language may be changed by pressing the **Enter Button** ㉘ until the desired choice is shown. Note, however, that some discs do not allow audio track change while the disc is playing. When the **Audio Button** ⑳ is pressed, the player will go to the disc's own menu page for subtitle disc selection. In this case, use the **◀/▶/▲/▼ Buttons** ㉕㉗㉙㉛ to make the selection from the menu screen and then press the **Enter Button** ㉘.

IMPORTANT NOTE: The steps indicated on the page allow you to change the subtitle language, but they do not determine whether the subtitles are actually displayed on the screen. To have the subtitles appear at any time, press the **Subtitle On/Off Button** ㊹ to toggle the subtitles on or off with each press of the button. When the subtitles are active, a Check-mark icon "✔" will appear in the box to the right of the subtitle description as shown earlier.

Also note that some DVD discs do not contain subtitles. When the **Subtitle On/Off Button** ㊹ is pressed on a disc with no subtitles, the Prohibit icon "Ø" will appear on screen.

Changing Camera Angles

A special feature of the DVD format is its capability of showing more than one view, or camera angle, of the same scene. This feature enables you to become the director, selecting the view of a scene that you wish. Note, however, that this feature does not appear on many discs and, when it does appear, it will typically be for only certain scenes and not for the entire disc's program. If you attempt to use the multiple-angle feature on a disc that is not programmed for it, you may see the Prohibited Feature icon "Ø" on the screen. This is not a fault of the player; it simply indicates that the feature is not available on the disc being played.

To see whether a disc contains multiple angles, check the disc's cover or jacket. When a disc does contain scenes with multiple angles, the producers will usually include some sort of special on-screen icon to alert you to the availability of different angles of view. When you see such an icon, the angle may be changed by the following steps:

1. Press the **Status Button** ❺.

2. Press the **◀/▶ Buttons** ㉗㉙ until the camera icon with the letters "Ang" below it (fifth from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** ㉘.

4. Note that the main Menu Bar will be replaced with a single display of the angle number (Figure 19).

Figure 19

5. Press the **Enter Button** ㉘ until the desired angle is shown. Note that the number of angles available is set by the disc's producer, not the DVD600, and it may vary from disc to disc.

You may also change the angle directly by pressing the **Angle Button** ㊶ when multiple angles are present, until the desired angle appears on the screen.

Playing CDs

The DVD600 allows you to take advantage of the on-screen Menu Bar even when playing CDs. The use of this graphical display makes it easy to select CD Functions.

When a CD is playing, the Menu Bar will automatically appear in your video display, even though there is no video on the CD itself. To remove the Menu Bar at any time, press the **Clear Button** ㊼. If the Menu Bar is not present, press the **Status Button** ❺ to have it appear on the screen (Figure 20).

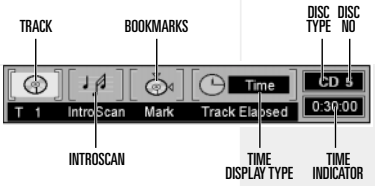


Figure 20

Track: The number shown indicates the number of the track that is currently playing.

IntroScan: When the IntroScan feature is active, the musical notes in this icon will change.

Bookmarks: Highlight this area and press enter to enter or go to bookmarked locations on a disc.

Time Display Type: This shows the type of time indication being shown: Time Remaining for the Current Track, Total Elapsed for the Disc, or Total Remaining for the Disc.

Disc Type: Shows the type of disc being played.

Disc Number: The slot number of the disc being played is shown.

Time Indicator: The time indication selected is shown.

Once the Menu Bar appears, press the ◀/▶ **Buttons** 27 29 to move across the display to select the desired option. When the option to be changed is highlighted in white with yellow brackets on both sides, press the **Enter Button** 28 to change the setting for that option.

Selecting a Track

To select any track on a CD, follow these steps:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the disc icon with the letter "T" underneath it is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28.

4. Note that the number to the right of the "T" will be replaced with two dashes (– –).

5. Using the **Numeric Keys** 33–40, 42 43, enter the number of the track to be accessed.

6. The desired title will automatically be started.

Using IntroScan

The IntroScan feature allows you to sample the tracks on a CD by playing the first ten seconds of each track and then moving to the next track. To use IntroScan, follow these steps:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the musical score icon with the words "IntroScan" underneath it (second from the left) is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28.

4. Note that the disc will immediately begin to play the first track on the disc and the musical notes in the icon will change and flash.

5. The unit will play the first ten seconds of each track on the disc, moving from one track to the next.

6. To play a track during IntroScan, press the **Play Button** 58 10D.

7. If no track is selected, the disc will stop playing when it has played the first ten seconds of each track in order.

Note that while the IntroScan feature is in use, the **Intro Indicator** F will appear in the **Information Display** 12D.

Time Display Selection

When playing CDs, the DVD600's displays are capable of the time displays that you are familiar with from traditional CD-only players. The choice of a time display is made through the use of the on-screen Menu Bar, but any changes to the display will also change the Time Display mode for the Information Display.

To change the time display during CD playback, follow these steps:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. If needed, press the ◀/▶ **Buttons** 27 29 until the clock icon with the word "Time" next to it is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28 to select one of these four choices. Each press of the button will select the next option:

- **Track Elapsed:** This shows the time that has elapsed for the current track. At the start of each track this display will reset to zero and begin to count up again.
- **Track Remain:** This shows the time remaining for the current track. At the start of each track the time will begin to count down again, starting with the total time of the track.
- **Disc Elapsed:** This shows the total time that the current disc has played for all tracks.
- **Disc Remain:** This shows the total time remaining for all tracks on the disc that have not yet been played.

Operating the DVD600 Changer
Programmed Play

The DVD600 is equipped with a wide range of programmed play functions that enable you to have the unit select or repeat tracks for you, or you may program a specific order for discs and tracks to play.

Random Play

The Random Play function will play all of the tracks on a CD or chapters on a DVD in a random order, as selected by the DVD600. Once the disc has played all of the tracks, it will stop.

To select Random Play at any time while a CD or DVD is playing, press the **Random Button** 50. The Random Play Banner (Figure 21) will appear on the screen and the **Random Indicator** will appear in order to confirm your selection. To remove the Random Play Banner from the screen, press the **Clear Button** 47.

Figure 21

To return to Standard Play, with tracks or chapters playing in order, press the **Random Button** 50 again. Note that a Standard Play Banner (Figure 22) will appear in order to confirm your selection and the **Random Indicator** will go out. The DVD600 may return to the disc's main menu.

Figure 22

Repeat Play

The DVD600 offers five repeat functions that allow you to take advantage of the five-disc capacity of the unit for unattended playback:

- **Repeat All:** Plays all discs in the unit in order from beginning to end.
- **Repeat 1 Disc:** Plays a specific disc from start to finish until the disc is manually stopped.
- **Repeat Title:** For DVD discs only, this mode repeats the title currently being played until the disc is manually stopped.
- **Repeat Track/Chapter:** Repeats the CD track or DVD chapter currently being played until the disc is manually stopped.
- **Repeat A–B:** Repeats any selected portion of a disc until the disc is manually stopped.

To select Repeat All, Repeat 1 Disc, Repeat Title or Repeat Track/Chapter, simply press the **Repeat Button** 55 until the banner display with the desired playback method appears on the screen. The selection process will follow this order:

- **For DVD Discs:** Repeat All (Discs) ➔ Repeat 1 (Current) Disc ➔ Repeat (Current) Title ➔ Repeat (Current) Chapter ➔ Repeat Off
- **For CD Discs:** Repeat All (Discs) ➔ Repeat 1 (Current) Disc ➔ Repeat (Current) Track ➔ Repeat Off

In addition, when the video display is not available, the **Repeat Indicators** will light in the **Information Display** 12D to show the options in use.

To stop any Repeat Play function, press the **Repeat Button** 55 until the Repeat Off Banner appears in the on-screen display or the **Repeat Indicators** in the **Information Display** 12D go out.

Repeat Play may also be stopped by pressing the **Stop Button** 8D 61 twice.

Repeat A–B

The Repeat A–B function allows you to select any portion of a DVD or CD and have it repeat continually unit the unit is manually stopped.

To initiate a Repeat A–B playback sequence, follow these steps while a disc is playing:

1. Press the **Repeat A–B Button** 56 at the start of the sequence to be repeated. Note that a Repeat A Banner (Figure 23) will appear on the video screen and the **Repeat A Indicator** will light in the Information Display.

Figure 23

2. When at the end of the sequence to be repeated, note that the on-screen banner message will change to Repeat A–B (Figure 24), as will the **Repeat A–B Indicator** in the Information Display.

Figure 24

3. The selected sequence will now play continually until the **Stop Button** 8D 61 is pressed.

Programmed Play

Programmed play allows you to select any track, title or chapter from any disc in the DVD600 for playback in a specific order. This type of programming is particularly useful for parties or other situations where you want continual playback of specific selections for a long period of time. To program the discs in the DVD600 for playback, follow these steps:

1. Press the **Program Button** 46 on the remote. Note that the Program Edit Screen (Figure 25) will appear on the video display.

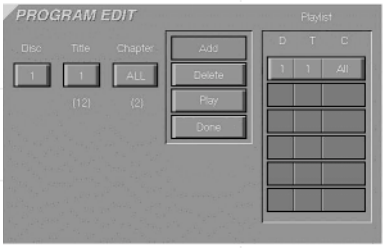


Figure 25

2. Select the disc position for the first playback selection by pressing the ▲/▼ **Buttons** 25 31. When the desired disc number appears in the disc's box in white over a blue background, press the **Enter Button** 28 or ▶ **Button** 29 to move to the next selection.

3. The second box will now be highlighted in blue to indicate that a selection for track or title is to be made. As the DVD600 already knows the disc type for the position selected, the heading over the box will indicate "Track" for CD discs and "Title" for DVD discs. The number in parentheses under the box shows the maximum number of tracks or titles on the disc. If "99" appears, it indicates that the disc selected has not yet been played and the unit does not yet know the type of disc and how many titles or tracks are available.

4. Press the ▲/▼ **Buttons** 25 31 to scroll through the list of available tracks or titles. Press the **Enter Button** 28 or ▶ **Button** 29 to move to the next selection.

Note that most DVD movie discs use "Title 1" for movies, while "Title 2" is used for the opening logos and piracy warnings. Before selecting a DVD title number, you may wish to preview the disc while the on-screen Menu Bar is active to see which title numbers refer to each portion of the disc. This is particularly important in discs with large amounts of special feature material.

5. The third box will now be highlighted in blue to indicate that a selection for chapter should be made. This choice is available only for DVD discs, as CD discs do not have chapter capability. The number in parentheses under the box shows the maximum number of chapters on the disc. If "99" appears, it indicates that the disc selected has not yet been played and the unit does not yet know the type of disc and how many titles or tracks are available. If "0" appears, this is your indication that the disc is a CD.

6. Press the ▲/▼ **Buttons** 25 31 to scroll through the list of available chapters. Press the **Enter Button** 28 or ▶ **Button** 29 to move to the next selection area.

7. The blue highlighted box will now appear in a column where the options are "Add," "Delete," "Play" and "Done." Since this is the first selection to be entered, press the **Enter Button** 28 and note that the selected disc, track, title and chapter will be added to the Play List column over a beige highlighted area. The blue highlight will return to the disc box to allow you to enter additional selections by repeating Seps 2 through 7.

8. Repeat the steps as needed, noting that the selections will be added to the Play List up to a maximum of 22 steps.

- To delete an entry from the Play List, press the ▶ and ▲/▼ **Buttons** 25 29 31 until the selection to be deleted is highlighted in dark green with green numbers on the Play List. Press the **Enter Button** 28 and then press the ▼ **Button** 31 once, so that the word Delete is highlighted. Press the **Enter Button** 28 and the selection will be deleted. A selection may also be deleted by following this step to highlight it in green and then pressing the **Clear Button** 47.
- To insert an entry into a Play List that has already been created, press the ▶ and ▲/▼ **Buttons** 25 29 31 until the place on the Play List where you wish to insert a selection is highlighted in dark green with green numbers. Press the **Enter Button** 28 and then press the ▼ **Button** 31 once, so that the word `Insert` is highlighted in blue, and then follow Steps 2 through 7. When you have entered the data for the selection, highlight the word Insert in blue and press Enter.

9. When you have completed the Play List, you may play the programmed selections by pressing the ▶ and ▲/▼ **Buttons** 25 29 31 until the word Play is highlighted in blue. Press the **Enter Button** 28 to begin playback of the entire Play List. During Program Play, the **Program Indicator** G will light.

10. To exit from the programming screen, press the **Return Button** 32.

Notes on Programmed Play

- To stop the playback of a Programmed Play List, press the **Stop Button** 61 twice.
- To cancel programmed Play Lists, press the **Clear Button** 47.
- To edit the contents of a Play List using the **Information Display** 12D only, and not the on-screen display, follow these steps:
  - Press the **Check Button** 53.
  - Press the **Check Button** 53 again to step through each of the programmed items. The Program Sequence Number will appear on the far right side of the **Information Display** 12D, next to the PR indication.
  - Use the ◀/▶ **Buttons** 27 29 to select the disc, track or chapter to be edited.
  - Use the ▲/▼ **Buttons** 25 31 to change the selection.
  - Press the **Clear Button** 47 to remove a program step.
  - When all steps have been programmed, press the **Play Button** 58 to begin programmed play, or the **Return Button** 32 to exit the programming function and return to normal operation.

Bookmarks

Bookmarks are a feature of the DVD600 that allows you to mark up to nine different points on a disc and to quickly return to those points later. The Bookmarks feature works on both DVD and CD discs.

To Enter a Bookmark, Follow These Steps:

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. Press the ◀/▶ **Buttons** 27 29 until the disc icon with the word "Mark" below it is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28 to view the Bookmark Banner.

4. At any point during playback where you wish to mark a spot so that you may return to it later, press the **Enter Button** 28. Note that a check mark "✔" will appear in the box on both the "Go To" and "Mark" lines.

5. To enter additional Bookmark points, press the ◀/▶ **Buttons** 27 29 until another empty box on the Mark line is highlighted in black. Press the **Enter Button** 28.

6. Repeat Steps 4 and 5 for up to nine Bookmark points on a disc.

7. To exit the Bookmark Banner, press the ◀/▶ **Buttons** 27 29 until the box at the right side of the banner is highlighted with a yellow outline and the arrow and open door icons turn from white to green. Press the **Enter Button** 28 to return to normal play. Press the **Clear Button** 47 to remove the Bookmark menu bar from the on-screen display.

The marked spots will remain in the DVD600's memory as long as the disc is not changed. The Bookmark memory will remain active if the disc is stopped or the unit turned off, but it will be lost if the disc is removed from the player, or if the disc tray drawer is opened when the unit is the Stop mode.

To Recall a Bookmarked Scene or Passage, Follow These Steps:

Note that a check mark "✔" will appear in the box on both the "Go To" and "Mark" lines.

1. During disc playback, press the **Status Button** 5 if the Menu Bar is not already on the screen.

2. Press the ◀/▶ **Buttons** 27 29 until the disc icon with the word "Mark" below it is highlighted in white between yellow brackets.

3. Press the **Enter Button** 28 to view the Bookmark banner.

4. Press the ▲ **Button** 25 so that a box on the top "Go To" line of the banner is highlighted in black with a yellow outline.

5. Press the ◀/▶ **Buttons** 27 29 so that the box below the number of the desired Bookmarked spot is highlighted.

6. Press the **Enter Button** 28 to go directly to the selected point on the disc

7. To exit the Bookmark Banner, press the ◀/▶ **Buttons** 27 29 until the box at the right side of the banner is highlighted with a yellow outline and the arrow and open door icons turn from white to green. Press the **Enter Button** 28 to return to normal play. Press the **Clear Button** 47 to remove the Bookmark menu bar from the on-screen display.

Operating the DVD600 Changer
Language Codes

The availability of specific languages for the main audio track or subtitles is dependent on the choices made by a disc's producer. You should always consult the disc's jacket for information on languages for any disc. In the case of some languages, you may be required to enter a code from the list below to access that language. See pages 47 and 48 for more information on entering language codes.

Language	Code
Abkhazian	6566
Afar	6565
Afrikaans	6570
Albanian	8381
Ameharic	6577
Arabic	6582
Armenian	7289
Assamese	6583
Aymara	6588
Azerbaijani	6590
Bashkir	6665
Basque	6985
Bengali; Bangla	6678
Bhutani	6890
Bihari	6672
Bislama	6673
Breton	6682
Bulgarian	6671
Burmese	7789
Byelorussian	6669
Cambodian	7577
Catalan	6765
Chinese	9072
Corsican	6779
Croatian	7282
Czech	6783
Danish	6865
Dutch	7876
English	6978
Esperanto	6979
Estonian	6984
Faroese	7079
Fiji	7074
Finnish	7073
French	7082
Frisian	7089
Galician	7176
Georgian	7565
German	6869
Greek	6976
Greenlandic	7576
Guarani	7178
Gujarati	7185
Hausa	7265
Hebrew	7387
Hindi	7273

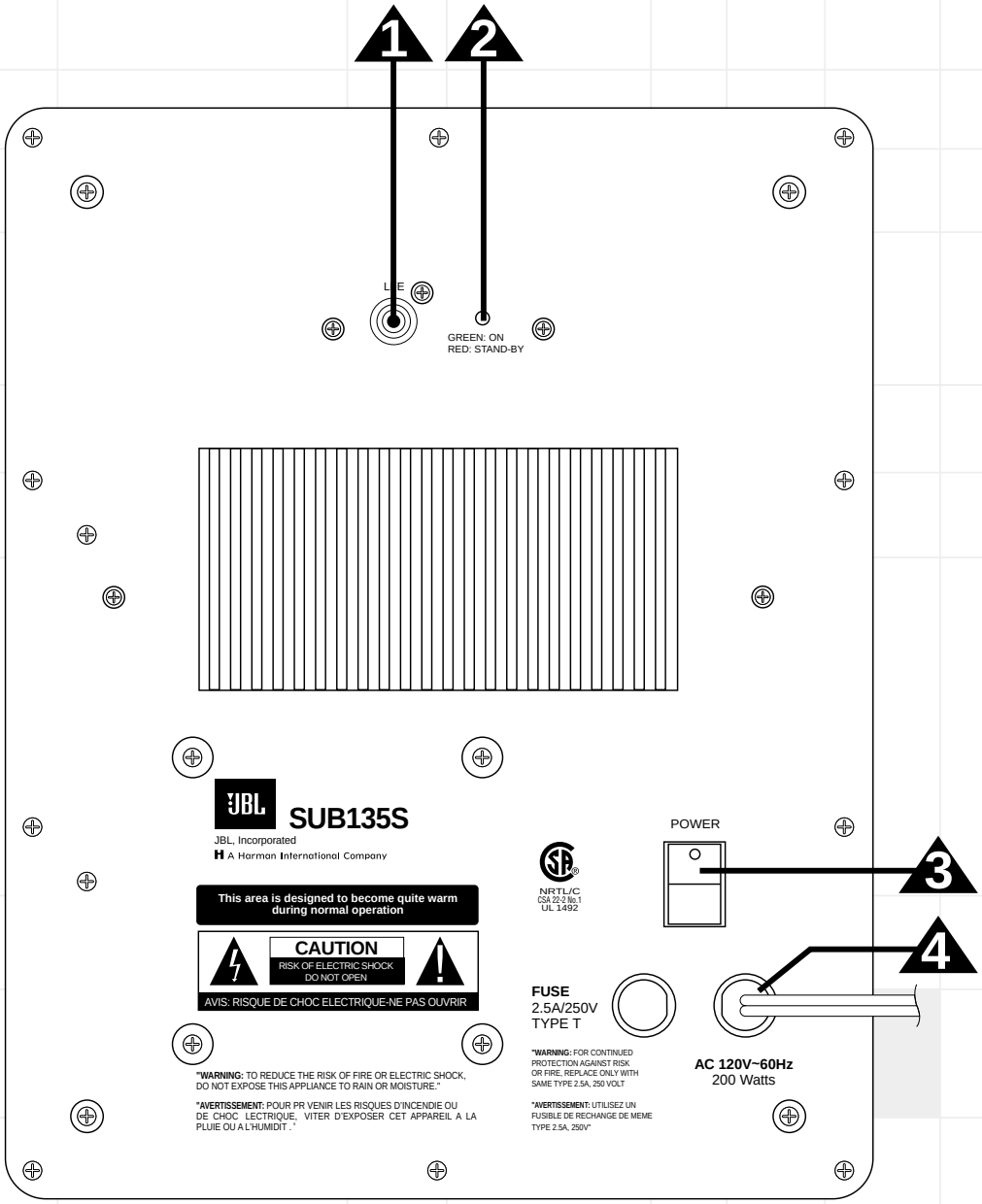
Language	Code
Hungarian	7285
Icelandic	7383
Indonesian	7378
Interlingua	7365
Interlingue	7369
Iunpiak	7375
Irish	7165
Italian	7384
Japanese	7465
Javanese	7487
Kannada	7578
Kashmiri	7583
Kazakh	7575
Kinyarwanda	8287
Kirghiz	7589
Kirundi	8278
Korean	7579
Kurdish	7585
Laothian	7679
Latin	7665
Latvian, Lettish	7686
Lingala	7678
Lithuanian	7684
Macedonian	7775
Malagsy	7771
Malay	7783
Malayalam	7776
Maltese	7784
Maori	7773
Marathi	7782
Moldavian	7779
Mongolian	7778
Naru	7865
Nepali	7869
Norwegian	7879
Occitan	7967
Oriya	7982
Oromo (Afan)	7977
Panjabi	8065
Pashto, Pushto	8083
Persian	7065
Polish	8076
Portuguese	8084
Quechua	8185
Rhaero-Romance	8277
Romanian	8279

Language	Code
Russian	8285
Samoan	8377
Sangho	8371
Sanskrit	8365
Scots Gaelic	7168
Serbian	8382
Servo-Groatian	8372
Sesotho	8384
Setswana	8478
Shona	8378
Sindhi	8368
Singhalese	8373
Siswati	8383
Slovak	8375
Slovenian	8376
Somali	8379
Spanish	6983
Sundanese	8385
Swahili	8387
Swedish	8386
Tagalog	8476
Tajik	8471
Tamil	8465
Tatar	8484
Telugu	8469
Thai	8472
Tibetan	6679
Tigrinya	8473
Tonga	8479
Tsonga	8483
Turkish	8482
Turkmen	8475
Twi	8487
Ukrainian	8575
Urdu	8582
Uzbek	8590
Vietnamese	8673
Volapuk	8679
Welsh	6789
Wolof	8779
Xhosa	8872
Yiddish	7473
Yoruba	8979
Zulu	9085

OPERATING THE SCS135S

Move the Master Power switch (marked "Power" 3) to the "●" (On) position to use the subwoofer. The SCS135S subwoofer will automatically turn itself on or go into Standby (sleep) mode. When your receiver or amplifier is off, or is not sending program material to the subwoofer, the subwoofer will be in Standby mode, which is indicated by the LED 2 turning red. When the subwoofer senses an audio signal, it will automatically turn itself on, and the LED 2 will turn green. If the subwoofer does not sense a signal after approximately twenty minutes, it will automatically go into Standby mode, and the LED 2 will revert to red.

If you will be away from home for an extended period of time, or if the subwoofer will not be used, switch the Master Power switch 3 to the Off position.


1
2
LED
GREEN: ON
RED: STAND-BY
JBL
SUB135S
JBL, Incorporated
A Harman International Company
This area is designed to become quite warm during normal operation
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR
"WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE."
"AVERTISSEMENT: POUR PR VENIR LES RISQUES D'INCENDIE OU DE CHOC LECTRIQUE, VITER D'EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDIT ."
NRTL/C
CSA 22.2 No.1
UL 1492
POWER
3
4
FUSE
2.5A/250V
TYPE T
"WARNING: FOR CONTINUED PROTECTION AGAINST RISK OR FIRE, REPLACE ONLY WITH SAME TYPE 2.5A, 250 VOLT
"AVERTISSEMENT: UTILISEZ UN FUSIBLE DE RECHANGE DE MEME TYPE 2.5A, 250V"
AC 120V~60Hz
200 Watts

TROUBLESHOOTING

Processor Reset

In the rare case where the DCR600's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor.

To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem.

To clear the DCR600's entire system memory including tuner presets, output level settings, delay times and speaker configuration data, first put the unit in Standby by pressing the **System Power Control Button** 2. Next, press and hold the **Tone Mode** 6 and the **FM Mode Selector** 12 buttons for three seconds.

The unit will turn on automatically and display the RESET message in the **Main Information Display** W. Note that once you have cleared the memory in this manner, it is necessary to reestablish all system configuration settings and tuner presets.

NOTE: Resetting the processor will erase any configuration settings you have made for speakers, output levels, surround modes and digital input assignments, as well as the tuner presets. After a reset, the unit will be returned to the factory presets, and all settings for these items must be reentered.

If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor.

If these steps do not solve the problem, consult an authorized JBL service center.

In the event that you forget the password for the DVD600, you may reset it to the factory default by following this procedure: In Standby mode, press the **Search Back** 5D and **Skip Forward** 7D buttons on the front panel simultaneously for more than 3 seconds. The **Information Display** W will light, and a test pattern will appear on your TV. Press **Power On** 2 to proceed.

SYMPTOM	PROBABLE CAUSE	SOLUTION
DCR600 does not function when Main Power Switch is pushed	• No AC Power	• Make certain AC power cord is plugged into a live outlet. • Check to see whether outlet is switch-controlled.
DVD600 does not turn on	• Main Power Switch turned off • No AC power	• Press in Main Power Switch. • Check AC power plug and make certain any switched outlet is turned on.
Display lights, but no sound	• Intermittent input connections • **Mute** is on • Volume control is down	• Make certain that all input and speaker connections are secure. • Press **Mute** button. • Turn up volume control.
Unit turns on, but front panel display does not light up	• Display brightness is turned off	• Follow the instructions in the Display Brightness section so that the display is set to VFD FULL.
No sound from any speaker; light around power switch is red	• Amplifier is in Protection mode due to possible short • Amplifier is in Protection mode due to internal problems	• Check speaker wire connections for shorts at receiver and speaker ends. • Contact your local JBL service center.
No sound from any speaker	• No audio signal is being transmitted to the speakers • If in DVD mode, make sure that analog input is not accidentally assigned • Intermittent connections • Incorrect digital audio selection • DVD disc is in Fast or Slow mode	• Check that DCR600 is on and a source is playing. • Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • Review proper operation of the DCR600. • Check Input assignment for DVD Input. DVD Input should be set to COAX 1 and the DVD600 Digital Output should be connected to **Coaxial 1 Digital Input** 25 on the DCR600. • Check all audio connections. • Check digital audio settings. • There is no audio playback on DVD discs during Fast or Slow modes.

Troubleshooting (Continued)

No sound from one speaker	• Balance is not at "12 o'clock" • No audio signal is being transmitted to the speakers	• Check the Balance control on the DCR600. • Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • In Dolby Digital or DTS modes, make sure that the DCR600 is configured so that the speaker in question is enabled.
No sound from surround or center speakers	• Incorrect surround mode	• Select a mode other than Stereo. • Make sure the movie or TV show you are watching is recorded in a surround-sound mode. If it is not, try using another surround mode.
	• Input is monaural • Stereo or Mono program material	• There is no surround information from mono sources. • The surround decoder may not create center- or rear-channel information from nonencoded programs. • Review the operation of your DVD player and the jacket of your DVD to make sure that the DVD features the desired Dolby Digital or DTS mode, and that you have properly selected that mode using both the DVD player's menu and the DVD disc's menu.
	• No audio signal is being transmitted to the speaker	• Check all wires and connections between the DCR600 and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
	• Incorrect configuration	• If the DCR600 is set in Dolby Pro Logic mode, make sure the center speaker is not in Phantom mode. • If the DCR600 is set in Dolby Digital or DTS mode, make sure it is configured so that the center speaker is enabled. • In Dolby Digital or DTS modes, make sure the DCR600 is configured so that the surround speakers are enabled. • Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
System plays at low volume but shuts off as volume is increased	• Speaker impedances are dropping too low for receiver to handle	• Check all wires and connections between the DCR600 and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured. • Do not use more than one pair of main speakers.
Low (or no) bass output	• Speakers are connected out of phase	• Make sure the connections to the left and right Speaker Inputs have the correct polarity (+ and –).
	• Subwoofer not activated	• Make sure the subwoofer is plugged into an active electrical outlet and turned on.
	• Subwoofer output of DCR600 not enabled	• In Dolby Digital or DTS modes, make sure the DCR600 is configured so that the subwoofer and LFE output is enabled.
Unit does not respond to remote commands	• Weak batteries in remote • Wrong device selected • Remote sensor is obscured	• Change remote batteries. • Press the **Main** 8 or **DVD** 4 selector. • Make certain front panel sensor is visible to remote or connect remote sensor.
Intermittent buzzing in tuner	• Local interference	• Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances.
Letters flash in the channel indicator display and digital audio stops	• Digital audio feed paused	• Resume play for DVD. • Check that Digital Input is selected.

Troubleshooting (Continued)

Disc does not play	• Disc loaded improperly • Incorrect disc type • Invalid Region Code • Rating is above parental preset	• Load disc label-side up. • Check to see that disc is CD, CD-RW, DVD-Movie or Video CD; other types will not play. • Use Region 1 disc only. • Enter password to override or change rating settings.
No picture	• Intermittent connections • Wrong Input	• Check all video connections. • Check input selection of TV or DCR600.
Picture is distorted or jumps during Fast Forward or Reverse Play	• MPEG-2 decoding	• It is a normal artifact of DVD playback for pictures to jump or show some distortion during rapid play.
Some remote buttons do not operate during DVD play	• Function not available for this disc	• Some discs do not include all DVD features.
The menu is in a foreign language	• Incorrect menu language	• Change menu language selection.
"Ø" symbol appears	• Requested function not available at this time	• Certain functions may be disabled during passages of a disc.
Picture is displayed in the wrong aspect ratio	• Incorrect match of aspect ratio settings to disc	• Change Aspect Ratio settings.
Disc will not copy to VCR	• Macrovision protection	• Most DVDs are encoded with Macrovision to prevent copying to VCR.

TECHNICAL SPECIFICATIONS
DCR600

Audio Section

Two-Channel Stereo Mode

75W per channel continuous RMS power into 8 ohms at 0.08% THD, 100Hz to 20kHz (frequencies below 100Hz are handled by SCS135S powered subwoofer)

Five-Channel Cinema Mode

100W per channel dynamic RMS power into 8 ohms at 0.08% THD, 100Hz to 20kHz (frequencies below 100Hz are handled by SCS135S powered subwoofer)

Input Sensitivity/Impedance
200mV/47k ohms

Signal-to-Noise Ratio	95dBA

Surround System Adjacent Channel Separation

Analog Decoding	40dB
Dolby Digital	55dB
DTS	55dB

Frequency Response
10Hz–100kHz (+0, –3dB)

FM Tuner Section

Frequency Range	87.5–108MHz
Usable Sensitivity	1.3µV/13.2dBf
Signal-to-Noise Ratio	70dB (mono) 68dB (stereo)
Distortion	0.2% (mono) 0.3% (stereo)
Stereo Separation	40dB @ 1kHz
Selectivity	±400kHz, 70dB
Image Rejection	80dB
IF Rejection	90dB
Tuner Output Level	500mV at 1kHz, ±75kHz Deviation

AM Tuner Section

Frequency Range	520–1710kHz
Signal-to-Noise Ratio	45dB
Usable Sensitivity	500µV (loop)
Distortion	0.8% (1kHz, 50% Modulation)
Selectivity	30dB at ±10kHz

Video Section

Format	NTSC
Input Level/Impedance	1Vp-p/75 ohms
Output Level/Impedance	1Vp-p/75 ohms
Video Frequency Response	10Hz to 8MHz (–3dB)

General

Unit Power Consumption	72W idle, 580W maximum
Unit Dimensions	
Width	17.3 inches (440mm)
Height	6.5 inches (165mm)
Depth	17.1 inches (435mm)
Unit Weight	31 lb (14.1kg)

Depth measurement includes knobs, buttons and terminal connections.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

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UltraStereo is a trademark of UltraStereo Corp.

VMAx is a registered trademark of Harman International Industries, Inc., and is an implementation of Cooper Bauck Transaural Stereo under patent license.

Logic 7 is a registered trademark of Lexicon, Inc., a Harman International Company.

Crystal is a registered trademark of Cirrus Logic Corp.

TECHNICAL SPECIFICATIONS
DVD600

Playback Media:	5-inch (12cm) or 3-inch (8cm) DVD-Video: Region 1, single or dual sides/layers, linear PCM, Dolby Digital, or DTS CD, CD-RW: Linear PCM Audio Video CD (VCD): MPEG-1 Video, Linear PCM Audio
Video Section:	
Signal format:	NTSC
Composite Output:	1V p-p/75 ohms, sync, negative polarity
S Output:	Y/Luminance: 1V p-p/75 ohms, sync, negative polarity C/Chrominance: 0.286V p-p
Component Outputs:	Y: 1V p-p/75 ohms, sync, negative polarity Pr: 0.648V p-p/75 ohms Pb: 0.648V p-p/75 ohms
Audio Section:	
Coaxial Digital Output:	0.5V p-p/75 ohms
Frequency Response:	2Hz to 22kHz, +/– 0.5dB (44.1kHz sampling rate)
Dynamic Range:	DVD: 105dB (20-bit) CD: 100dB
Channel Separation:	90dB
THD:	0.0035%
Signal-to-Noise Ratio:	100 dB
Wow and Flutter:	below measurable limits
General:	
Unit Power Consumption:	25W
Unit Dimensions:	Width: 17.3 inches (440mm) Height: 5.1 inches (130mm) Depth: 16.9 inches (420mm)
Unit Weight:	14.4 lb (7.6kg)

Depth measurement includes knobs and buttons.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

TECHNICAL SPECIFICATIONS
SCS135S

Overall Frequency Response: 35Hz – 20kHz (–6dB)

Satellites

Configuration:	2-Way, video-shielded
Recommended Amplification:	Use with DCR600 only
Impedance:	8 Ohms nominal
Sensitivity:	86dB @ 1 watt/1 meter
Tweeter:	One 1/2" titanium-laminate dome
Midrange:	One 3" cone
Unit Dimensions:	Width: 3.19 inches (81mm) Height: 4.38 inches (111mm) Depth: 3.75 inches (95mm)
Unit Weight:	1.1 lb/0.5kg

Center

Configuration:	2-Way, video-shielded
Recommended Amplification:	Use with DCR600 only
Impedance:	8 Ohms nominal
Sensitivity:	86dB @ 1 watt/1 meter
Tweeter:	One 1/2" titanium-laminate dome
Midranges:	Dual 3" cones
Unit Dimensions:	Width: 7.63 inches (194mm) Height: 3.25 inches (83mm) Depth: 3.75 inches (95mm)
Unit Weight:	1.89 lb/0.86kg

Subwoofer

Configuration:	Floor-firing, bass-reflex ported enclosure
Woofer:	8" cone
Amplifier Power output:	100W Continuous RMS power at 0.8% THD, 20Hz to 100Hz
LFE Input Voltage/Impedance:	2V p-p/47k ohms
Unit Dimensions:	Width: 13 inches (330mm) Height: 15 inches (381mm) Depth: 14 inches (356mm)
Unit Weight:	30 lb/13.6kg

All features and specifications are subject to change without notice.